

SERIES 2™

**HUMAX**  
EASY DIGITAL™



# Viewer's Guide

Setting up your HUMAX DVD Recorder  
Using the TiVo® service

## The On-Screen Menus and the Remote Control

### Arrow Buttons



To navigate the Recorder's on-screen menus, use the remote control's arrow buttons to move the highlight bar onto the option you want, then press SELECT.



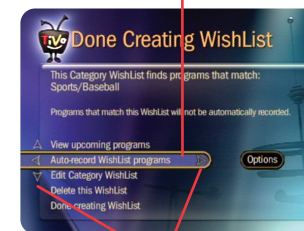
The LEFT arrow button often takes you to the previous screen.

Select

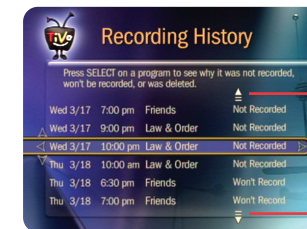
### Two Types of On-Screen Arrows

The arrows that appear beside or near the highlight bar show possible directions. For example, on this screen, you could press the RIGHT arrow to highlight Options or the DOWN arrow to highlight "Edit Category WishList."

#### Highlight Bar



#### Arrows Near Highlight Bar



Page Up  
Arrow

Page Down  
Arrow

When you see page up or page down arrows at the top or bottom of the screen (or a list), press the CHAN UP/DOWN button to jump an entire page at a time.



Chan  
UP/DOWN  
Button

# Programming the Remote Control

- After you complete Guided Setup (see Chapter 2), you can program the TV POWER, VOL, and MUTE buttons to control your TV\*:
- Find the four-digit codes for your television brand.** Press the TiVo button to go to TiVo Central®. Select Messages & Setup, then Settings, then Remote Control & Recorder Front, then Remote Control - TV (power, volume, mute).
  - Prepare the remote control.** Point the remote away from your Recorder and cover the front end with your hand. Press and hold the TV POWER button and TiVo button simultaneously for about 5 seconds (until the red light at the end of the remote control comes on, remains steady, then stays on when you release the buttons).
  - Enter a code.** Use the number buttons on the remote to enter a four-digit code (starting with the first code in the list on the screen). After you press the fourth digit of the code, the red light on the end of the remote control should flash three times and then go out.
  - Test the code.** Point the remote towards the TV and press the TV POWER button. If pressing the button turns the TV off, you're finished. If it does not work, repeat steps 2 and 3 using the next code in the list. If none of the codes works, see Chapter 6 of this guide for alternatives.
- \*You can also program the remote to control your TV's input settings, an A/V receiver, and a second Recorder. See Chapter 6 for complete instructions.

## Inserting Batteries into the Remote Control

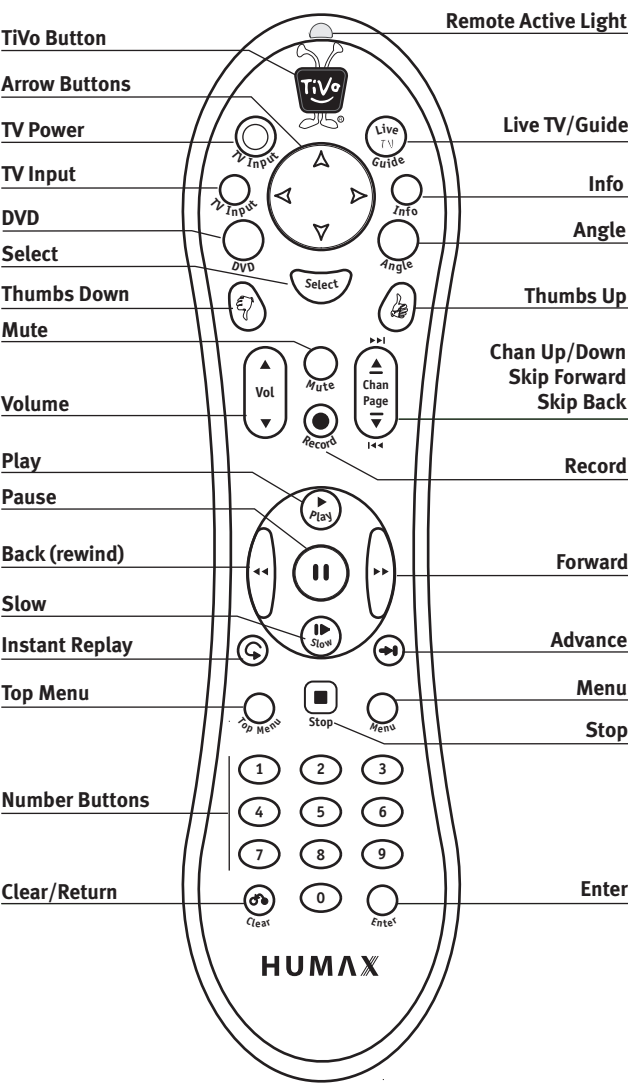
Hold the remote with the battery door facing you. Place your thumb in the depression of the door and slide the door towards you.

Insert two AA batteries (supplied). Be sure to match the + and - marks on the batteries to the + and - marks in the compartment.

Replace the battery door by sliding it back into the case with the tabs towards the rear of the compartment. You'll hear a click when it's securely back in place.

# Remote Control Tips

- Press the **TiVo button** once to go to TiVo Central, or twice to go to the Now Playing list.
- Press **LIVE TV/GUIDE** to see the program guide.
- Press **FORWARD** (▶▶) and **BACK** (◀◀) up to 3 times for 3 speeds. Press **PLAY** to resume normal play.
- INSTANT REPLAY** replays the last 8 seconds of a program.
- CHAN UP/DOWN** does more than change the channel—it also pages up or down through lists of programs or menu items. It skips to the next (or previous) chapter or track when playing a DVD or CD.
- Press the **DVD** button to go to the DVD screen. Use **TOP MENU** and **MENU** to navigate a particular DVD's menus. (These may work differently for different DVDs.) Press **RETURN** to return to a previous DVD menu.
- Press **CLEAR** to delete a title in a list (like the Now Playing list) or to hide things that aren't part of the program you're watching (like the channel banner).
- INFO** brings up the channel banner. Press the RIGHT arrow to switch among three versions of the banner, each with a different amount of information.
- When you're watching "behind" live TV (for example, if you paused live TV and later resumed watching from the paused spot), **ADVANCE** catches you up to the live broadcast. In a recorded program, press it once to jump to the end of the program, then again to jump to the beginning.
- If programmed, the **TV POWER**, **VOLUME**, **MUTE**, and **TV INPUT** buttons can control your TV and A/V equipment.



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Welcome!

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20005-2380

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## ►► Welcome to the TiVolution®!

It's a revolution in television. We've pioneered an exciting new category that will forever change the way you watch TV. Your new HUMAX DVD Recorder with TiVo® service combines a TiVo® Digital Video Recorder (DVR) with a DVD recorder.

**Never miss your favorite shows again.** The TiVo service automatically records every episode of your favorite series, all season long, even if the network schedule changes. It can even skip reruns.

**No more videotapes.** Because it's all-digital, your HUMAX DVD Recorder saves all your programs in one place so they're ready to watch anytime. You can even start watching a show from the beginning—even while it's still recording.

**Archive your memories.** When we say “no more videotapes,” we mean it! Turn your old home movies into DVDs. Plus, easy-access front panel inputs let you connect a digital video camera directly to your Recorder, and easily archive your home movies.

**Networked home entertainment.** Schedule recordings on your Recorder at home from any web browser, anywhere! Connect your Recorder to a home network and enjoy digital music and photos in your living room, and transfer recordings to any TiVo Series2™ DVR connected to your home network.

**No more interruptions.** Pause live TV for as long as 30 minutes—any channel, any time. You can also rewind, instant replay, and slow-motion live or recorded TV. Wow!

**Watch more of what you like, less of what you don't.** Because the TiVo service is “smart,” it can automatically find and record shows that feature your favorite actor, team, hobby, etc., so you'll always catch the good stuff—even if you never knew it was on.

At last, TV fits into your busy life, not the other way around!

**HUMAX**  
E A S Y   D I G I T A L



You've got a life. TiVo gets it.™

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Throughout this guide, you will see

important and helpful notes and tips in this side column.



## ►► Using This Guide

### ► Getting Started

1. Activate the TiVo® service (see page 22 for more on activating).
2. Connect your Recorder using the *Start Here* poster and Chapter 1 of this guide.
3. Complete Guided Setup following the steps provided in Chapter 2 of this guide.

When you've finished these three steps, you're ready to use the TiVo service. Take the tours in Chapter 3 of this guide to check out the basic features.

**Basic terms.** These are terms used in this guide when we talk about the rest of the service:

**Recorder.** Your HUMAX DVD Recorder combines a TiVo® Digital Video Recorder (DVR) with a DVD recorder. This guide uses “Recorder” to refer to it.

**Live TV.** If you're watching a program as it's being broadcast, you're watching live TV. With the TiVo service, you can also watch recorded programs, or watch “behind” live TV (if you pause live TV, then come back later and watch from the paused spot).

**Icons.** These are graphic symbols used in the TiVo service to provide information and options you can select. You'll find the Glossary of Icons on the inside back cover.

**Program Information screen.** When you select a program title from a list, you'll see this type of screen. From it, select actions and view the program description.

**Menu paths.** Notes at the bottom of some pages show you how to find the screen being described. For example, page 46 describes the To Do List. At the bottom of the page you see **TiVo Central ► Pick Programs to Record ► To Do List**. This means you can find the To Do List by going to TiVo Central, selecting Pick Programs to Record, then To Do List.

**Service updates.** Your Recorder may receive service updates which include features not described in this guide. Details about service updates are always available at [www.tivo.com/support](http://www.tivo.com/support).



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# Connecting Your Recorder

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## ►► Getting Started

Television used to be so simple: all you needed was an antenna and a TV. The antenna captured audio and video signals and sent them to your TV over a wire.

As TVs have acquired more features, and new devices have been created to work with your TV, it may seem that everything has become more complex. You may have a VCR, a DVD player, and a game system connected to your TV, in addition to your HUMAX DVD Recorder with TiVo® service. However, one thing has remained the same: you still need to get audio and video (sound and pictures) from their source (an antenna, or a cable or satellite box) to your TV.

Sounds and pictures travel through cables. The choice of cables may seem overwhelming, but they all perform the same function: they transfer sounds and pictures to your TV at varying levels of quality.

All of your equipment has connectors, or jacks, where cables can be connected. Some jacks are labeled “In” and some are labeled “Out.” Pictures and sounds enter audio/video (A/V) equipment through IN jacks and leave through OUT jacks.

When you connect your Recorder to your TV and other A/V equipment, you are simply creating a path that starts at the wall, or your cable or satellite box, and goes in (through IN jacks) and out (through OUT jacks) of your equipment until it reaches your TV.



**Remember, always connect cables from the OUT jack of one device to the IN jack of the next. Never connect an IN to an IN or an OUT to an OUT.**



## ► Cables and Accessories

1

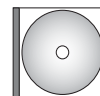
**Inside the carton, you will find** your new HUMAX DVD Recorder, a box containing the Remote Control, batteries, a blank DVD-RW disk, and connection cables (contents listed below), along with this *Viewer's Guide* and the *Start Here* poster.



**Recorder**



**Remote Control**

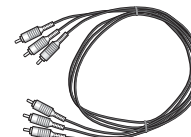


**DVD-RW**

**You may need to purchase additional items for some setups:**



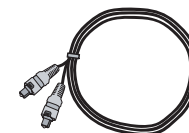
**RF Coaxial cable Splitter**



**Component Video cable**



**S-Video cable**



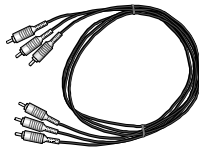
**Digital Audio cable**

### **Audio, Video, Phone, and Power**

These cables connect your Recorder to your TV, power, and home phone line.



**Power Cord**



**Composite A/V cables**



**RF Coaxial cable**



**25' Phone Cord**



**Phone Line Splitter**

### **Channel Changing cables**

These cables allow your Recorder to change channels on a cable or satellite box. If you don't have a cable or satellite box, you won't use these cables.

**If you have a DIRECTV® satellite box with a 9-pin Data connector, or a Motorola/GI DCT2000 series cable box, use this cable:**



**Serial (Data) Control cable**

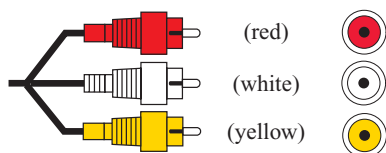
**If you can't use the Serial Control cable with your satellite box or cable box, use this cable instead:**



**IR Control cable**

## ► Choosing audio and video cables

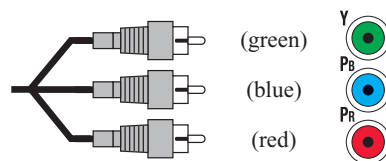
### 1 Composite A/V cable & jacks (audio & video)



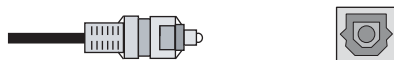
### 2 S-Video cable & jack (video only)



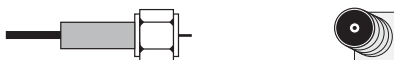
### 3 Component Video cable & jacks (video only)



### 4 Optical Digital Audio cable & jack (audio only)



### 5 Coaxial RF cable & jack (audio & video)



Most TVs and other audio/video devices have jacks for **Composite A/V** cables (1).

Composite A/V cables have three ends, two (white and red) for stereo audio (left and right), and one (yellow) for video. You can connect all three, or use just the red and white ends for stereo audio, and connect a separate cable for video (see below).

The Recorder's back panel also has jacks for **S-Video** (2). S-Video provides a higher quality video signal than composite. If you have equipment that supports this connection, you can purchase an S-Video cable to use in place of the yellow video end of the Composite A/V cable. (Use the red and white ends for stereo audio.)

The Recorder also has **Component Video** (3) output jacks. Component Video provides superior video quality by separating the video signal into three components, luminance (Y) and two color difference signals (Pb, Pr). If your TV has Component Video inputs, purchase a Component Video cable and use it to connect the Recorder to your TV.

The Recorder provides digital audio output through the **Optical Digital Audio** (4) jack. If you have an A/V receiver that supports Dolby Digital audio, you can purchase an Optical Digital Audio cable to connect your Recorder. Ordinarily, the Recorder produces tones when certain buttons on the remote are pressed. If you use the Optical Digital Audio jack, you won't hear these tones when watching programs with Dolby Digital audio.


The Recorder also has a **Coaxial RF Out** (5) jack, however this jack is used only to pass a cable or antenna signal through the Recorder (see the Back Panel Reference on page 184 for details). You must connect your Recorder to your TV using one of the video output jacks described above to see TiVo screens and watch DVDs. If your TV only has an RF In jack and no other A/V input jacks, you will not be able to connect the Recorder.

## ► Choosing a Channel Changing Cable

Your Recorder needs to be able to change channels in order to record programs and display live TV. If you are using a cable or satellite box, the Recorder needs to send channel changing signals to it using either an IR (infrared) or a Serial (data) control cable. The following pages help you choose which control cable to use.

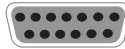

If you don't have a cable or satellite box, your Recorder does not need a channel changing cable. Skip to "Connecting to a Phone Line" on page 8.

**Serial/Data Control.** You can use the Serial Control cable for channel changing if:

- You have a DIRECTV® satellite box with a 9-pin data connector like this: 
- You have a Motorola/General Instruments DCT2000 series cable box, and your cable provider has enabled it for serial control.

Otherwise, use the IR Control cable (described on the next page).

Some DIRECTV® satellite boxes have other connections that you may be able to try. To use one of these connections, you will need to purchase an additional cable or accessory (available from [www.tivo.com/store](http://www.tivo.com/store)):

- If your DIRECTV® satellite box has a 15-pin connector like this:  you can connect the Serial Control cable by using a 15-pin adapter.
- Some satellite boxes for the DIRECTV® service have a **Home Control** connector like this:  (similar to a phone jack, but slightly smaller).

To connect the Home Control cable, plug one end of the cable into the **Home Control** jack on your DIRECTV satellite box. This connector is sometimes labeled "Low Speed Data." (Don't try to connect a **Home Control** cable to the satellite box's phone jack.) Plug the other end into the **Control Out/Serial** jack on the Recorder.



After setting up your Recorder, including the control cable connection, you can change channels using only your Recorder's remote control.



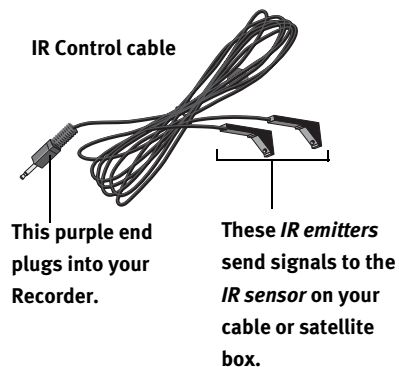
Serial Control cable




15-pin adapter  
(not included)



Home Control cable  
(not included)



 The small “bulbs” on the IR emitters do not visibly light up when they send an IR signal. If you find that channels are not changing, see page 136 for troubleshooting help. If channels change unreliably or inconsistently, try the tips on optimizing the IR Control connection (right).

**IR (infrared) Control.** The IR Control cable allows the Recorder to change channels on any cable or satellite box with an IR sensor. See the *Start Here* poster for diagrams of common cable and satellite boxes, and where to find the IR sensor on each.

- **Finding the IR sensor.** To correctly position the IR Control cable, you need to find your cable box or satellite box’s IR sensor. To locate the IR sensor, look for a tiny round bulb behind the dark, translucent plastic “window”—the IR window—on the front of your cable or satellite box. A flashlight might help you see it. Position the IR emitters so they are centered on the IR sensor and stick out about 1.5 inches.
- **Choosing an IR code in Guided Setup.** After setting up your Recorder, you’ll complete Guided Setup (see Chapter 2 for more information). During Guided Setup, you’ll be asked to test and select an IR code. Each IR code signals a particular cable or satellite box model to change channels. If none of the codes changes the channel on your particular cable or satellite box, see page 136 for troubleshooting tips. If you find a code or codes that work, but none of the codes is reliable or consistent, try optimizing the IR Control connection (see below).
- **Optimizing the IR Control connection.** The IR Control cable works better if its emitters and the IR window on the cable or satellite box are shaded from other infrared signals. You can create an “IR tent” to decrease the interference from other signals. This solution may help if changing channels with an IR Control cable is unreliable or inconsistent, but not if channels don’t change at all.

Test whether an IR tent might be effective simply by draping a magazine, a towel, or a dark cloth over the front of cable or satellite box, including the IR emitters. (See the diagram on page 7.) Do not block the Recorder’s IR window. Try changing channels several times with the TiVo remote. If channels change more reliably this way, you may want to build an IR tent.

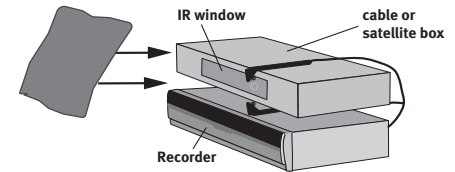
**Building an IR Tent.** The exact methods and materials you use to build the IR tent will depend on the shape of your cable or satellite box's IR window and the materials you have available. However, the general procedure described below will guide you.

- 1 Cover the area around the IR emitters and the cable or satellite box's IR window with a piece of thick fabric, such as black flannel. You could create a cover using cardboard or opaque tape instead. The important point is that the material you use fits snugly over the area around the translucent IR window and the IR Control cable's emitters.

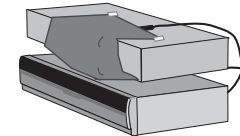
If possible, cover the entire IR window on the cable or satellite box, because signal interference can enter from anywhere in the window. For some cable and satellite boxes, covering the entire IR window will include covering the controls on the front. In that case, you won't be able to use the controls, nor will you be able to control the cable or satellite box with its remote. However, we recommend using only your TiVo remote to change the channel. If you still need to access your cable or satellite box, use materials that are relatively easy to remove.

- 2 Secure the cloth, tape, or other material (with tape or by another method), making sure that it fits closely around the IR window and the IR Control cable's emitters.

- 1 Place a piece of opaque material—for example, cloth or tape—over the IR emitters (shown on opposite page) and the IR window of the cable or satellite box.



- 2 Secure the material, making sure that it fits snugly.





**Do not connect the Recorder to a digital PBX phone system (these allow many phones to share a single telephone number and are usually used in hotels and office buildings). Doing so may permanently damage your Recorder's modem and will void your warranty.**



**If your cable or satellite box is also connected to your phone line, use the provided phone line splitter so the Recorder can share the same phone jack. Plug the splitter into the wall jack, then plug both phone cords into the splitter.**

## ► **Connecting to a Phone Line**

During Guided Setup, your Recorder uses a standard analog phone line to connect to the TiVo® service (see Chapter 2). After Guided Setup, your Recorder needs to make regular connections to the TiVo service, using either a phone line or a shared broadband Internet connection. When it connects to the TiVo service, the Recorder may receive:

- Updated program information, including episode titles, plot descriptions, ratings, and schedule information.
- Any available updates to the Recorder service, including content for Showcases. (See page 39 for more information about Showcases.)
- Any recording requests you made using TiVo Central Online. (See page 53 for more information about Online Scheduling.)

**Guided Setup Requires a Phone Line.** Almost every household phone line is a standard analog line, which is what the Recorder needs to complete Guided Setup. After Guided Setup, you can connect your Recorder to a home network and use a shared broadband Internet connection instead of a phone line for connections to the TiVo service. See “Connecting to a Home Network for Home Media Features” on page 111 for information.

If you don't have a home network with a shared broadband Internet connection, the Recorder must use a standard analog phone line for regular connections to the TiVo service. You should leave the phone cord plugged in continuously in order to keep your Recorder's program information up to date.

**Phone Jack Location.** If the phone jack isn't close to the Recorder, you can use the 25-foot phone cord that comes with the Recorder to connect it to a phone jack. Phone cords longer than 25 feet are readily available at most hardware or electronics stores.



## ►► Choosing a Setup Example

The rest of this chapter provides examples for connecting your Recorder to your program source (antenna, cable, or satellite), your TV, and other optional A/V equipment. From the list below, choose a basic setup based on your program source.

After you get your basic system working, connect other equipment (such as a VCR, DVD player, or game console) to additional inputs on your TV or A/V receiver.

### Basic Setups: Connect your Recorder to your Program Source and your TV

Your program source is antenna or cable with no cable box.	<b>Setup 1: Antenna or Cable (No Cable Box)</b>	p. 10
Your program source is either a cable or satellite box. (If you have both, see Setup 4, below.)	<b>Setup 2: Cable or Satellite Box</b>	p. 12
You have two program sources: a satellite box and an antenna; or a satellite box and cable (no cable box).	<b>Setup 3: Satellite Box &amp; RF Program Source</b>	p. 14
You have two program sources: a satellite box and a cable box.	<b>Setup 4: Cable Box and Satellite Box</b>	p. 16

### Setup Variations: These are variations on the Basic Setups

Your program source is antenna or cable (with or without a cable box) and you want to watch one channel while recording another.	<b>Watching One Channel &amp; Recording Another (Antenna or Cable)</b>	p. 18
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### Before you begin:

**Make sure all your equipment is turned off and the Recorder is unplugged.**

1



The Recorder is not designed to support a heavy load, such as a TV.

Your Recorder is only capable of supporting the weight of one or two common A/V components such as VCRs, DVD players, or A/V receivers (provided they have four good, broad, padded feet that distribute of the weight near the corners of the Recorder).

Also, avoid stacking your Recorder on top of other electronic components such as VCRs, A/V receivers, or your TV's vents.



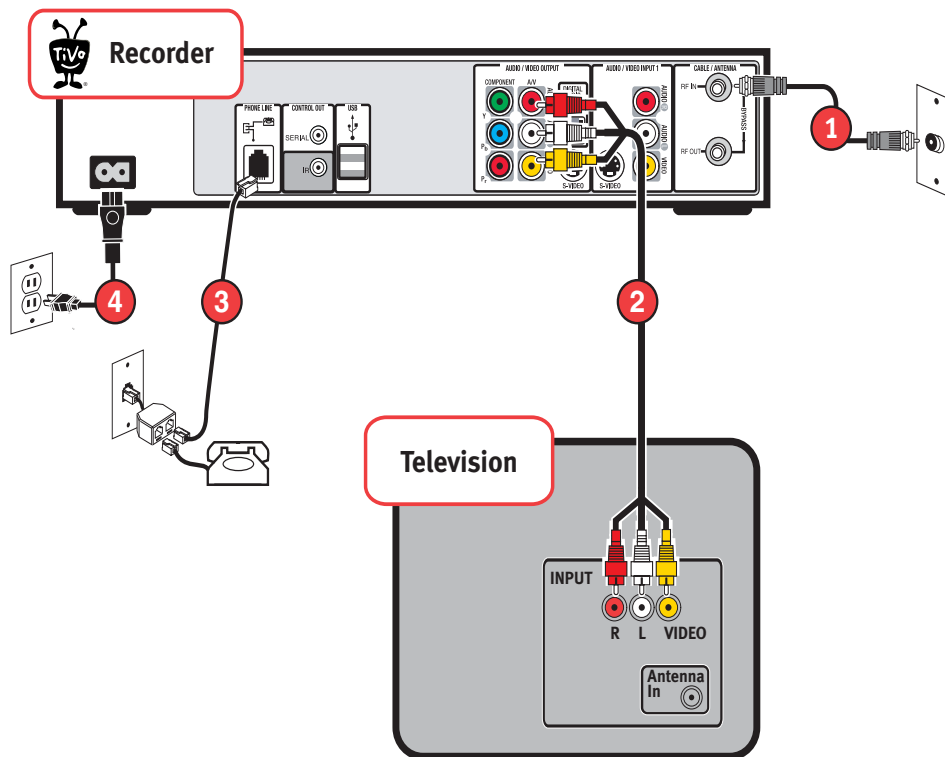
The audio/video cables shown here are for example only. For help

choosing cables, see page 4.



Other kinds of A/V equipment, such as a DVD player or game console, do not connect to your Recorder. You should connect your other devices to additional inputs on your TV or A/V receiver.

## ►► Setup 1: Antenna or Cable (No Cable Box)



- ❶ Connect the Coaxial RF cable coming from the wall to the **Cable/Antenna-RF In** jack on the Recorder.
- ❷ Connect a Composite A/V cable from the **Audio/Video Output** jacks on the Recorder to the **Audio/Video Input** jacks on the TV.
- ❸ Connect the phone cord (see page 8). After you complete Guided Setup, you can connect your Recorder to a home network and use a broadband Internet connection instead of a phone line to connect to the TiVo service. See Chapter 7.
- ❹ Plug in all power cords and turn on your TV.

Set your TV to display video from the input jacks you used in step ❷. You may have to find the correct TV input setting by pressing the Input or TV/Video button on your TV's remote control until you see the Welcome screen. (For more help, see page 131.)

Once you see the Welcome screen, the final steps are to activate the TiVo service and complete Guided Setup. If you need help, see Chapter 2.



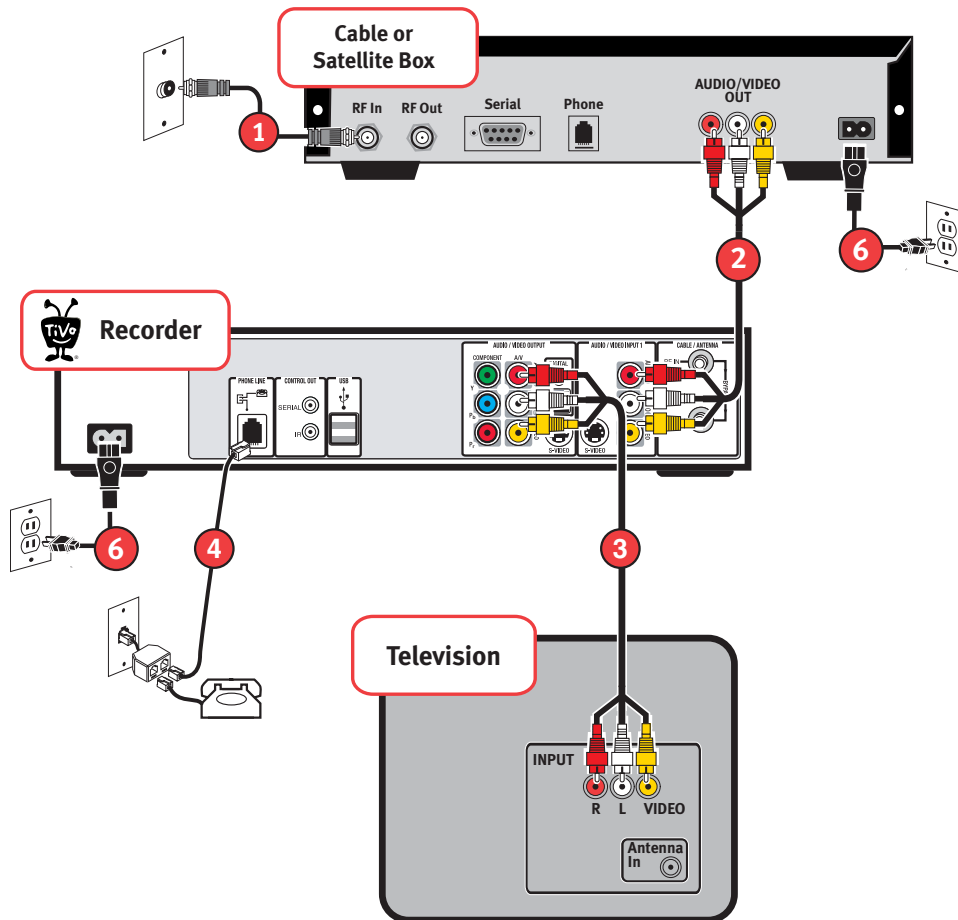
The audio/video cables shown here are for example only. For help

choosing cables, see page 4.



Other kinds of A/V equipment, such as a DVD player or game console, do not connect to your Recorder. You should connect your other devices to additional inputs on your TV or A/V receiver.

## ►► Setup 2: Cable or Satellite Box



- 1 Make sure the cable from the wall is connected to your cable or satellite box.
- 2 Connect a Composite A/V cable from the **Audio/Video Output** jacks on the cable or satellite box to the **Audio/Video Input** jacks on the Recorder.
- 3 Connect a Composite A/V cable from the **Audio/Video Output** jacks on the Recorder to the **Audio/Video Input** jacks on the TV.
- 4 Connect the phone cord (see page 8). After you complete Guided Setup, you can connect your Recorder to a home network and use a broadband Internet connection instead of a phone line to connect to the TiVo service. See Chapter 7.
- 5 Connect a channel changing cable (see the diagrams to the right).
- 6 Plug in all power cords and turn on your TV.

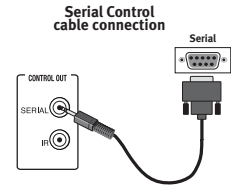
Set your TV to display video from the input jacks you used in step 3. You may have to find the correct TV input setting by pressing the Input or TV/Video button on your TV's remote control until you see the Welcome screen. (For more help, see page 131.)

Once you see the Welcome screen, the final steps are to activate the TiVo service and complete Guided Setup. If you need help, see Chapter 2.

- 6 **Connect a Channel Changing Cable**  
(See page 5 for help choosing a channel changing cable.)

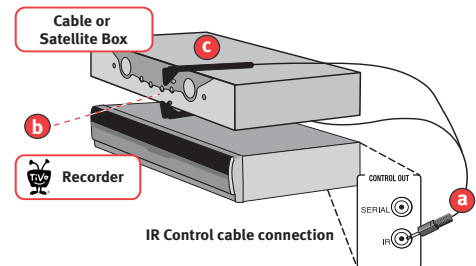
#### Serial Control cable:

Plug one end of the Serial Control cable into the Serial/Data connector on the cable or satellite box. Plug the other end into the Control Out-Serial connector (the upper mini jack) on the back of the Recorder.



#### IR Control cable:

(a) Plug the purple end of the IR Control cable into the Control Out-IR connector (the lower mini-jack) on the Recorder. (b) Locate the IR sensor (see page 6 for help). (c) Mount the IR emitters. Place one emitter on top of the cable/satellite box and the other underneath it. Be sure both emitters stick out about 1.5 inches directly in front of the IR sensor. Use the provided adhesive strips to hold the emitters in place.





The audio/video cables shown here are for example only. For help

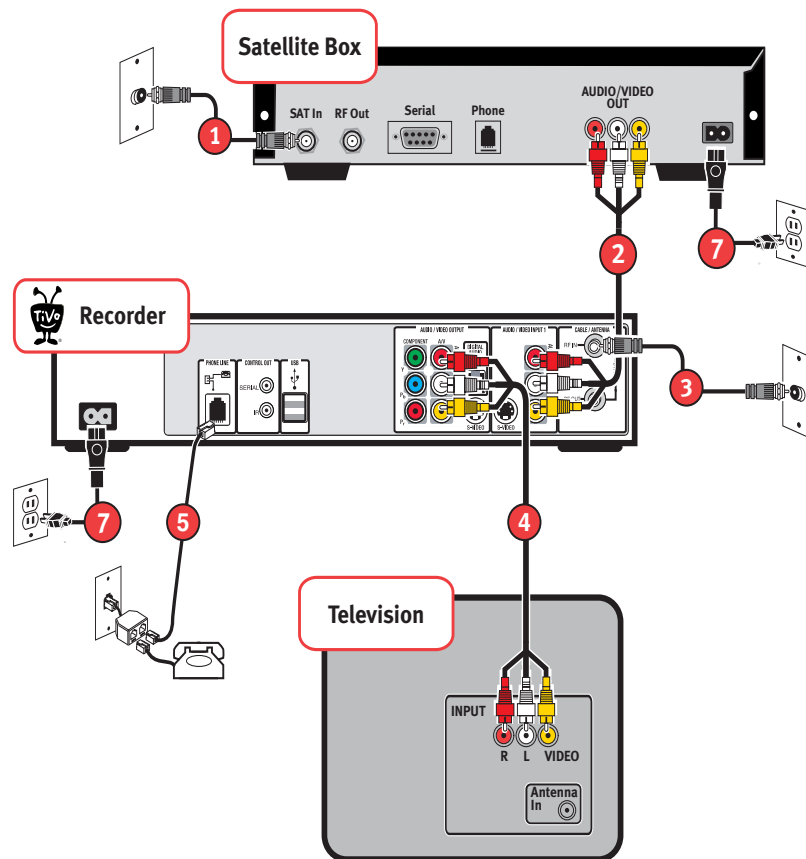
choosing cables, see page 4.



Other kinds of A/V equipment, such as a DVD player or game console, do

not connect to your Recorder. You should connect your other devices to additional inputs on your TV or A/V receiver.

## ► Setup 3: Satellite Box & RF Program Source (Antenna or Cable)



- ❶ Make sure the satellite cable from the wall is connected to your satellite box.
- ❷ Connect a Composite A/V cable from the **Audio/Video Output** jacks on the satellite box to the **Audio/Video Input** jacks on the Recorder.
- ❸ Connect the Coaxial RF cable from your antenna or cable source to the **Cable/Antenna-RF In** jack on the Recorder.
- ❹ Connect a Composite A/V cable from the **Audio/Video Output** jacks on the Recorder to the **Audio/Video Input** jacks on the TV.
- ❺ Connect the phone cord (see page 8). After you complete Guided Setup, you can connect your Recorder to a home network and use a broadband Internet connection instead of a phone line to connect to the TiVo service. See Chapter 7.
- ❻ Connect a channel changing cable (see the diagrams to the right).
- ❼ Plug in all power cords and turn on your TV.

Set your TV to display video from the input jacks you used in step ❹. You may have to find the correct TV input setting by pressing the Input or TV/Video button on your TV's remote control until you see the Welcome screen. (For more help, see page 131.)

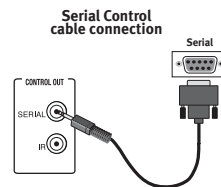
Once you see the Welcome screen, the final steps are to activate the TiVo service and complete Guided Setup. If you need help, see Chapter 2.

## ❻ Connect a Channel Changing Cable

(See page 5 for help choosing a channel changing cable.)

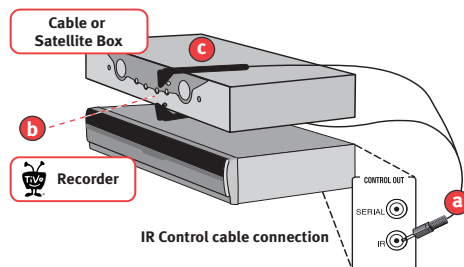
### Serial Control cable:

Plug one end of the Serial Control cable into the Serial/Data connector on the cable or satellite box. Plug the other end into the Control Out-Serial connector (the upper mini jack) on the back of the Recorder.



### IR Control cable:

(a) Plug the purple end of the IR Control cable into the Control Out-IR connector (the lower mini-jack) on the Recorder. (b) Locate the IR sensor (see page 6 for help). (c) Mount the IR emitters. Place one emitter on top of the cable/satellite box and the other underneath it. Be sure both emitters stick out about 1.5 inches directly in front of the IR sensor. Use the provided adhesive strips to hold the emitters in place.





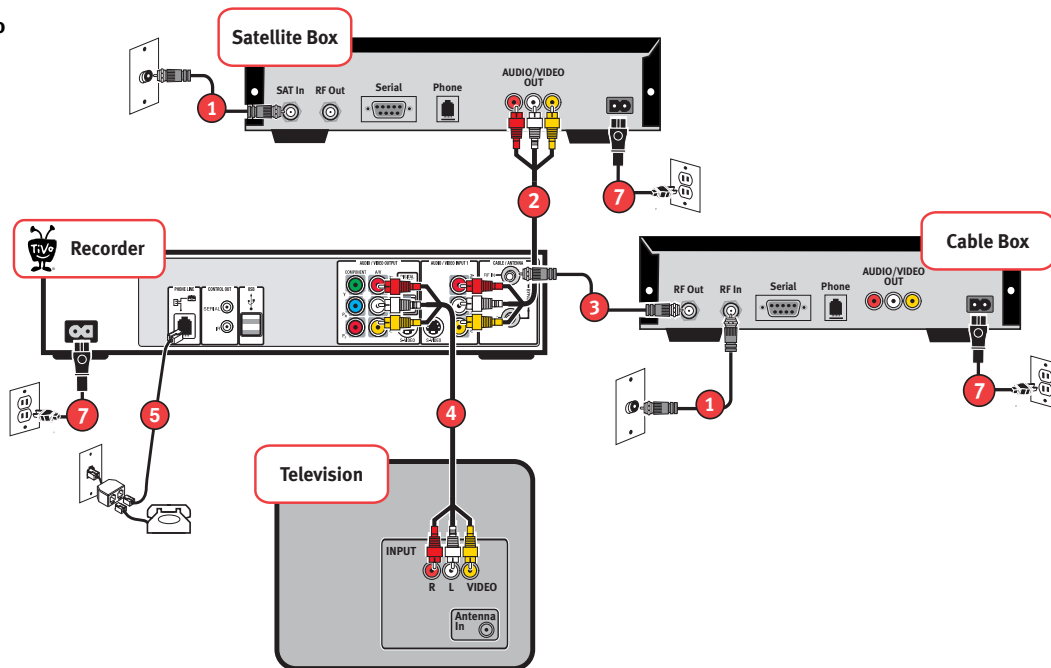
The audio/video cables shown here are for example only. For help

choosing cables, see page 4.



Other kinds of A/V equipment, such as a DVD player or game console, do not connect to your Recorder. You should connect your other devices to additional inputs on your TV or A/V receiver.

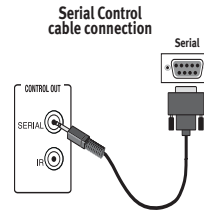
## ►► Setup 4: Cable Box and Satellite Box





- 1 Make sure the cables from the wall are connected to your cable and satellite boxes.
- 2 Connect a Composite A/V cable from the **Audio/Video Output** jacks on the satellite box to the **Audio/Video Input** jacks on the Recorder.
- 3 Connect a Coaxial RF cable from the **RF Out** jack on the cable box to the **Cable/Antenna-RF In** jack on the Recorder.
- 4 Connect a Composite A/V cable from the **Audio/Video Output** jacks on the Recorder to the **Audio/Video Input** jacks on the TV.
- 5 Connect the phone cord (see page 8). After you complete Guided Setup, you can connect your Recorder to a home network and use a broadband Internet connection instead of a phone line to connect to the TiVo service. See Chapter 7.

- 6 **Channel changing cables:** First, see page 5 to check whether you can use the Serial Control cable for either your satellite or cable box. If you can, connect it as shown in the diagram to the right. Then use the IR Control cable for the other box. If you can't use the Serial Control cable for either box, you can use the IR control cable for both. See the IR diagrams at the right.



- 7 Plug in all power cords and turn on your TV.

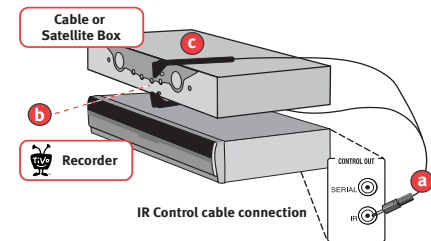
Set your TV to display video from the input jacks you used in step 4. You may have to find the correct TV input setting by pressing the Input or TV/Video button on your TV's remote control until you see the Welcome screen. (For more help, see page 131.)

Once you see the Welcome screen, the final steps are to activate the TiVo service and complete Guided Setup. If you need help, see Chapter 2.

## 6 Connect Channel Changing Cables

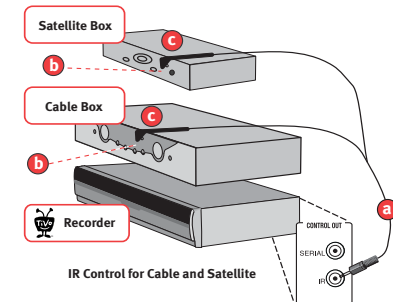
### IR Control cable for one box:

(a) Plug the purple end of the IR Control cable into the Control Out-IR connector (the lower mini-jack) on the Recorder. (b) Locate the IR sensor (see page 6 for help). (c) Mount the IR emitters. Place one emitter on top of the cable/satellite box and the other underneath it. Be sure both emitters stick out about 1.5 inches directly in front of the IR sensor. Use the provided adhesive strips to hold the emitters in place.



### IR Control cable for both boxes:

Follow steps (a) and (b) as above. In step (c), mount the IR emitters on top of each box as shown.





The audio/video cables shown here are for example only. For help choosing cables, see page 4.



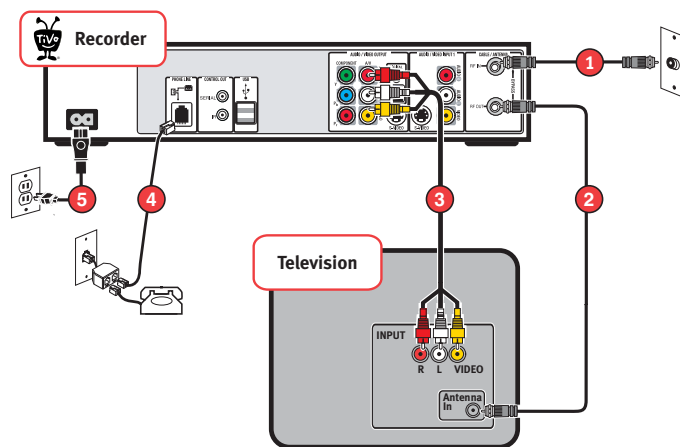
## How do I watch one channel and record another?

To watch live TV on one channel while the HUMAX DVD Recorder records another, put the Recorder into Standby mode. To do this, press the TiVo button on the Recorder's remote. Select Messages & Setup, then Standby. Then use your TV's remote to change channels. Because this signal simply passes through the Recorder, it has no TiVo service functionality (so you can't pause or rewind live TV).

To watch video from the Recorder again, press the TiVo button on the Recorder's remote, then press the Input, Source, or TV/Video button on your TV remote or TV until you see TiVo Central®.

## ▶▶ Watching One Channel & Recording Another

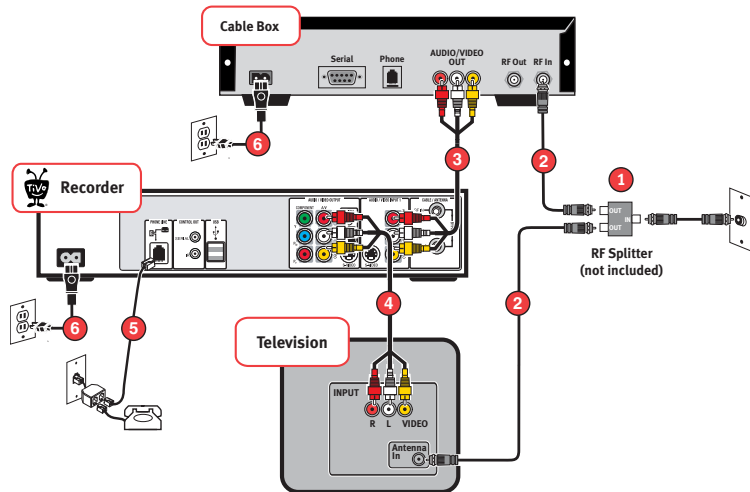
### ▶ Antenna or Cable with No Cable Box



- ❶ Connect the Coaxial RF cable coming from the wall to the **RF In** jack on the Recorder.
- ❷ Connect a Coaxial RF cable from the **RF Out** jack on the Recorder to the **Antenna/RF In** jack on your TV.
- ❸ Connect a Composite A/V cable from the **Audio/Video Output** jacks on the Recorder to the **Audio/Video Input** jacks on your TV.
- ❹ Connect the phone cord (see page 8).
- ❺ Plug in all power cords and turn on your TV. You may have to find the correct TV input setting by pressing the Input or TV/Video button on your TV's remote control until you see the Welcome screen. (For more help, see page 131.)

Once you see the Welcome screen, the final steps are to activate the TiVo service and complete Guided Setup. If you need help, see Chapter 2.

## ► Cable with a Cable Box



The audio/video cables shown here are for example only. For help choosing cables, see page 4.

This setup requires an RF splitter. You can purchase one at a local electronics store.



- 1 Connect the cable from the wall to the input jack of an **RF splitter** (not included).
- 2 Connect an RF Coaxial cable from one of the splitter's outputs to the **RF In** jack on your cable box. Connect another RF Coaxial cable from the splitter's other output to the **Antenna/RF In** jack on your TV.
- 3 Connect a Composite A/V cable from the **Audio/Video Output** jacks on the cable box to the **Audio/Video Input 1** jacks on the back of the Recorder.
- 4 Connect a Composite A/V cable from the **Audio/Video Output** jacks on the Recorder to the **Audio/Video Input** jacks on your TV.
- 5 Connect the phone cord (see page 8). After you complete Guided Setup, you can connect your Recorder to a home network and use a broadband Internet connection instead of a phone line to connect to the TiVo service. See Chapter 7.

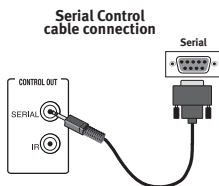
## 6 Connect a Channel Changing Cable

(See page 5 for help choosing a channel changing cable.)

### Serial Control cable:

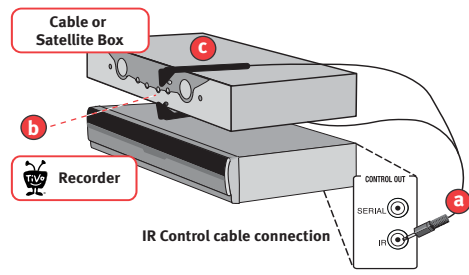
Plug one end of the Serial Control cable into the Serial/Data connector on the cable or satellite box.

Plug the other end into the Control Out-Serial connector (the upper mini jack) on the back of the Recorder.



### IR Control cable:

**(a)** Plug the purple end of the IR Control cable into the Control Out-IR connector (the lower mini-jack) on the Recorder. **(b)** Locate the IR sensor (see page 6 for help). **(c)** Mount the IR emitters. Place one emitter on top of the cable/satellite box and the other underneath it. Be sure both emitters stick out about 1.5 inches directly in front of the IR sensor. Use the provided adhesive strips to hold the emitters in place.



**6** Connect a channel changing cable (see the diagrams to the left).

**7** Plug in all power cords and turn on your TV.

Set your TV to display video from the input jacks you used in step **3**. You may have to find the correct TV input setting by pressing the Input or TV/Video button on your TV's remote control until you see the Welcome screen. (For more help, see page 131.)

Once you see the Welcome screen, the final steps are to activate the TiVo service and complete Guided Setup. If you need help, see Chapter 2.

### How do I watch one channel and record another?

In this setup, your cable signal is split and sent to two different devices: your cable box and your TV. Keep in mind that you can receive only basic cable channels on the signal that goes from the splitter to your TV.

- To watch live TV on one channel while the Recorder records another, use your TV's remote to change channels. Because this signal does not pass through the Recorder, it has no TiVo service functionality (so you can't pause or rewind live TV).
- To watch video from the Recorder again, press the TiVo button on the Recorder's remote, then press the Input, Source, or TV/Video button on your TV remote or TV until you see TiVo Central®.

# Guided Setup

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Your TiVo service number is a 15-digit number found on the label

on the back of your Recorder.



The Recorder was designed to be used exclusively with the TiVo

service. The TiVo service is required for proper operation of the Recorder. Without the TiVo service, your Recorder will have limited functionality. No functionality is represented, warranted, or should be expected without a subscription to the TiVo service.

## ▶▶ Activating the TiVo® Service

To activate the TiVo service, visit the TiVo website at [www.tivo.com/activate](http://www.tivo.com/activate) or call us. (See Chapter 8 for Customer Support contact information.) When you activate, you will provide your Recorder's TiVo service number and choose a billing option.

The TiVo service consists of the program information shown in the guide, features that use the guide information such as Season Pass™ recordings, WishList™ searches, and TiVo Suggestions, as well as Showcases, Online Scheduling, and Service Updates.

**Home Media Features.** After you activate the TiVo service and complete Guided Setup, connect your Recorder to a home network! Doing so gives you new ways to use your Recorder as a digital home entertainment center. Connect to a home network and enjoy:

- **Digital Music Player** — Use the home entertainment center in your living room to listen to the digital MP3 music collection stored on your computer.
- **Digital Photo Viewer** — Use your television to view slideshows of digital photos stored on your computer.
- **Multi-Room Viewing** — Record programs in the living room and watch them in the bedroom. Or vice versa.

For more information about connecting your Recorder to a home network to use these bonus features, see “Connecting to a Home Network for Home Media Features” on page 111. For details about using these features, download the Home Media Features Guide at [www.tivo.com/guides](http://www.tivo.com/guides).

Activate now! Don't miss a single day of using the TiVo service.

## ►► Completing Guided Setup

After you connect your Recorder to your TV and activate the TiVo service, you will need to complete Guided Setup, which takes less than an hour.

- **Guided Setup is easy.** The Guided Setup screens step you through the process. If you get stuck, look for tips and troubleshooting in this chapter. (You may not see all the screens described here, or you may see them in a different order, depending on your equipment.)

If you make a mistake during Guided Setup, simply press the LEFT arrow to go back and fix it. You can also change your setup information later in Messages & Setup. (See Chapter 6.)

- **Guided Setup is intelligent.** In Guided Setup, you tell your Recorder your program source (antenna, cable, or satellite) and equipment setup. Then you only have to complete the steps that apply to your particular setup.
- **Guided Setup requires two phone calls.** Try to complete Guided Setup when you don't need the phone for an hour or so. After you complete Guided Setup, you'll be able to connect your Recorder to a home network and use a shared broadband Internet connection instead of a phone line to connect to the TiVo service. See Chapter 7.

After completing Guided Setup, you can watch live TV and use TiVo service features to control live TV. You will have to wait a few hours while the Recorder organizes information before you can set up your Season Pass™ recordings and search for programs.

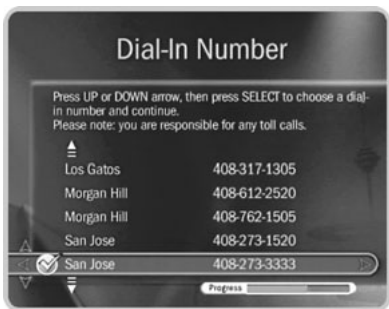
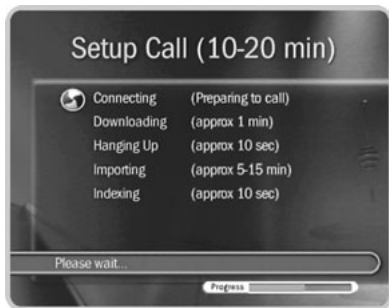


If you can't find the help you need in this chapter, please visit

TiVo Customer Support online at [www.tivo.com/support](http://www.tivo.com/support) or call us. (Refer to Chapter 8 for Customer Support contact information.)



If you need to use the phone during either of the setup phone calls, pick up your telephone, then hang it up and wait about 45 seconds. The Recorder will hang up, and the next time you pick the phone up there will be a dial tone. You can complete Guided Setup later.



### ► **Guided Setup Tips and Troubleshooting**

**ZIP Code.** If your program source is an antenna connected to your TV, the TiVo service uses the channel lineup of a nearby cable service to determine which channels you receive. If no cable company serves your ZIP code, enter a nearby ZIP code that has cable service.

**E-mail Address.** When you provide your e-mail address, you'll be notified about what's new at TiVo, including new features, tips and tricks, and TiVo exclusives. Your e-mail address will not be sold, rented, loaned, or otherwise disclosed. For information on how TiVo safeguards your privacy, visit [www.tivo.com/privacy](http://www.tivo.com/privacy).

**Phone Dialing Options.** If your phone system requires special dialing options, choose "Yes." Most people won't need to change the settings. See page 104 for information about each option.

**Setup Call.** This toll-free call takes a few minutes to retrieve the dial-in numbers for your area code and the list of cable or satellite providers for your ZIP code. After hanging up, the Recorder will take 5 to 15 minutes to organize the information. If the call doesn't succeed, see page 132 for troubleshooting steps.

**Dial-In Number.** The Recorder will use the dial-in number you choose for phone connections to the TiVo service. The list may be too long to fit on one screen. To see more dial-in numbers, press the DOWN arrow or CHAN DOWN to scroll down the list.

After Guided Setup, the Recorder uses either a phone line or a broadband Internet connection to connect to the TiVo service, which is a local call in most areas. In some areas, local and long distance toll charges may apply. You are responsible for any telephone charges.



**Dialing Format.** Choose how you want the Recorder to dial the dial-in number. (For example: should the dial-in number be preceded by your area code and should a “1” precede the area code?) In some areas, local numbers must be dialed using the area code.

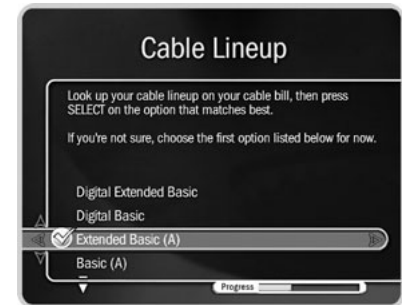
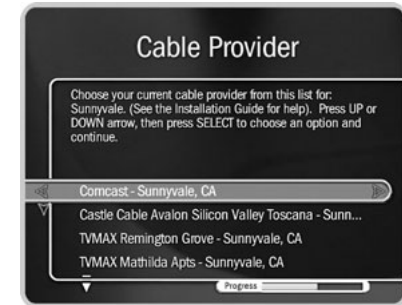
**Satellite Provider.** If you subscribe to additional local channels for your city or a nearby city from your satellite provider, choose the appropriate option followed by the city name from which you get your local channels (for example, DIRECTV-Sacramento, CA).

**Cable Provider.** Cable companies may have entries with very similar names, and it may be difficult to know which is yours. Check your channel lineup card (received during cable installation) or your cable bill. If you aren’t sure, make your best guess. Later in Guided Setup, you can check your guess on the Channels You Receive screen (see page 26). If you still don’t see your provider, go back and verify that you entered the correct ZIP code.

**Cable Lineups.** A lineup is the type of subscription you purchased from your cable company. Lineups usually have names like “Basic” or “Extended Basic.” Your cable bill may have this information. If you still aren’t sure, make your best guess. Later in Guided Setup, you can check your guess on the Channels You Receive screen (see page 26).

You may also see names like “Rebuild Basic” or “Rebuild Extended Basic.” “Rebuild” is a term used to refer to a revised lineup. Usually you would be informed by your cable company if your lineup has been revised. If your best guess at a lineup choice was not correct, and a rebuild lineup with a similar name is available, try that one instead.

If you have a cable A/B system, you must pick either A or B to watch with your Recorder.





Use the CHAN UP/DOWN button as a

shortcut to go up or down a whole screen at a time.

**Channels You Receive.** First, if you had to make a guess about your provider or lineup, verify that the channel numbers match the networks on this list. (For example, if you had the lineup pictured on the left, is channel 2 actually KTVU?) If you aren't sure, refer to the channel guide or quick-reference card from your cable or satellite company.

Next, add or remove check marks—so that the list reflects the channels you actually subscribe to—by highlighting a channel and pressing SELECT. (Some types of satellite boxes will get stuck on channels you don't receive if those channels are selected here, so be sure to de-select channels you don't receive.)

The TiVo service will search for programs only on channels marked with a yellow check. Also, the CHAN UP/DOWN button skips channels that aren't checked on this list.

Finally, highlight Done Selecting Channels and press SELECT to continue. If you change your mind, you can easily make changes after you finish Guided Setup. (See page 86.)

**Channel Changing.** If you have a cable or satellite box, your Recorder needs to send it a signal to change channels. It can do this through an IR (infrared) or serial connection. Make sure that the connection described on this screen matches what you have used to connect your cable or satellite box to your Recorder. For help choosing and setting up a connection, see the *Start Here* poster and Chapter 1 of this guide. After Guided Setup, if your channels don't change, see troubleshooting steps on page 136.

**Connection to Recorder Screens.** Use the UP/DOWN arrows until the picture of the Recorder matches the cable you used to connect video from your satellite or cable box. When the status says "Video OK," press SELECT to continue. If the status says "No Video," check that the video cable is firmly connected to the Recorder and that you have selected the correct type of video cable.

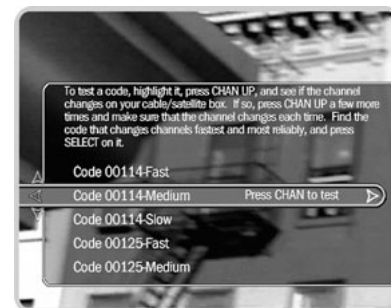
**IR Code List.** If you use an IR connection, the Recorder will need to send a code to your cable or satellite box in order to change channels. You will need to test these codes to see which works best with your connection. Each code has a slow, medium, and fast version. First, test the slow codes by highlighting them and pressing the CHAN UP/DOWN button slowly several times. When you find a slow code that changes channels every time, try a faster speed for that code. (Slow may take longer, but fast may be too fast for your cable or satellite box.) You want to find the code with the fastest speed that changes the channel every time. When you find it, press SELECT to choose that code. If channels don't change at all, see page 136 for troubleshooting steps.

**Program Call.** During this call, the TiVo service downloads all your program information—which includes program titles, times, channels, and descriptions—for up to the next two weeks. If the call doesn't succeed, see page 132 for troubleshooting steps. If you need to use the phone during the program call, pick it up, then hang it up, then wait about 45 seconds. The Recorder will hang up and you can make the program call later.

**Congratulations!** Once you have activated your TiVo service and completed Guided Setup, you'll see the Congratulations! screen. If you have not yet activated your TiVo service, you will be reminded to do so at this time.

You can immediately begin watching live TV and using your Recorder's features to control live TV (pause, instant replay, slow motion). The Recorder works behind the scenes for about four to eight hours to organize program information for the first time. During this process, you will have to wait to search for programs, set up recordings, and view information in the program guide. A message at the bottom of the Pick Programs to Record screen will warn you if you are not able to search for programs yet. If the message appears, try again after a few hours.

Press the TiVo button on your remote control to go to TiVo Central® to begin enjoying the TiVo service.





## ▶▶ TiVo Central®

Almost everything you do with the TiVo service starts from TiVo Central. You can schedule recordings, watch live TV or recorded programs, play DVDs or CDs, and more. To get to TiVo Central, press the TiVo button on your remote control.

Occasionally, you will notice special icons beside some options in TiVo Central.



This icon appears if you have TiVo Messages to read. See page 84 for more about TiVo Messages.



Choose the selection next to this icon to watch a special preview or visit a Showcase. See page 39 for more about Showcases.



This icon appears next to selections that contains special video content. Highlight the selection and press PLAY on the TiVo remote to play the video.



This icon indicates news or special offers from TiVo.

You can find a complete Glossary of Icons in the inside back cover of this guide.

**Music & Photos.** Connect your HUMAN DVD Recorder to a home network and you'll be able to use your Recorder to listen to digital music and view digital photos stored on a home computer. See Chapter 7.

**Take a Tour.** Now you're ready to start enjoying the TiVo service! Check out the five short tours in Chapter 3 to learn more.

# The Basics in 5 Short Tours

<b>Tour One: Play with Live TV</b>	<b>30</b>
<b>Tour Two: Find and Record Programs</b>	<b>32</b>
<b>Tour Three: Now Playing and Save To DVD</b>	<b>34</b>
<b>Tour Four: Playing a DVD or CD</b>	<b>36</b>
<b>Tour Five: Finding New Programs</b>	<b>38</b>
<b>Cool Things You Can Do</b>	<b>40</b>

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status bar



**Changing channels works just like you would expect it to: use the number buttons on the remote to enter a channel number, then press ENTER.**

**Or, press the CHAN UP or CHAN DOWN buttons to surf one channel at a time.**

## ►► Tour One: Play with Live TV

In this tour, you'll learn how you to control live TV. So turn on your TV and grab your TiVo remote! To watch live TV, select Watch Live TV from TiVo Central®, or press the LIVE TV button on the remote.

- ⏸ First, press the PAUSE button—the program you're watching pauses. Now you can stand up and stretch, or go to the kitchen and get a snack. You can pause live TV for up to 30 minutes!
- ▶ But for now, press PLAY and the program resumes.
- ◀◀ Next, press BACK—the program rewinds. Press BACK a second time—it goes faster! A third time—faster still! Both the FORWARD and BACK buttons have three speeds. Press BACK a fourth time (or press PLAY at any time) to return to normal speed.
- ⏸ + ▶▶ Press PAUSE once more, then immediately press FORWARD to move the picture a small step forward! Press BACK to move the picture a small step back. When your show is paused, FORWARD and BACK move the program forward or back in small steps. Press PLAY to resume watching at normal speed.
- ⏮ Try out the INSTANT REPLAY button. INSTANT REPLAY jumps you back 8 seconds—useful for when you miss a great sports play or a bit of dialog, or for when you fast forward too far.
- ⏪ Press INSTANT REPLAY again, then immediately press SLOW. You get your own slow-motion replay!
- ⏭ Finally, try the ADVANCE button. Presto! You're caught up to live TV.

### ► **Status Bar**

Press PAUSE to make the status bar visible. It shows a one-hour period. The green segment is the portion of the current hour that has been saved by your Recorder.

Look for the white line. It marks the part of the program you are currently watching. If the white line is anywhere back in the green segment you are “behind” real time (which is way better than being behind the times!).

Now press CHAN UP. When you change channels, the saved programming from the old channel is cleared, and the Recorder starts to save what’s showing on the new channel.

### ► **Channel Banner**

Press INFO to see the channel banner. (You can also press RIGHT arrow.) It’s only there for a few seconds, but you can bring it back by pressing INFO again. While the banner is visible, press RIGHT arrow to switch from a small, to medium, to large banner. Note that each version has a different amount of information.

Keep pressing RIGHT arrow until you see the largest version of the channel banner.

Notice the small icons on the right side. Each symbol represents a useful feature, like recording or Parental Controls. Press the UP and DOWN arrows to highlight different icons. Pressing SELECT while an icon is highlighted will take you to that feature. (For more on using these icons, see page 68.)

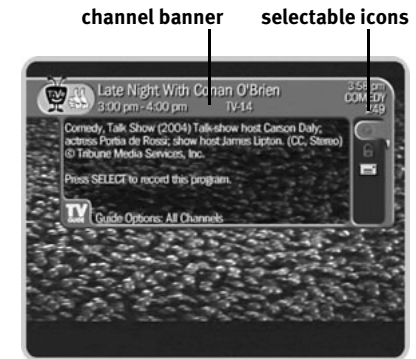
Finally, press the CLEAR button—the channel banner disappears. (CLEAR gets rid of things that aren’t part of the program you’re watching.)

Now go have fun playing with live TV, then come back for the next tour!



status bar

This white line tells you where you are.



channel banner

selectable icons

## ►► Tour Two: Find and Record Programs

You can always record the program you're watching by pressing the RECORD (Ⓢ) button on the TiVo remote. The TiVo service also provides many ways to quickly search large numbers of TV programs, find your favorites, and schedule recordings in advance.

### ► Using the Program Guide

While watching live TV, press GUIDE to display your Recorder's program guide. Press the UP, DOWN, LEFT, and RIGHT arrows to move the highlight bar over a program title. (Notice that the program description at the top changes.) Then press SELECT on the highlighted channel.

If the program is on now, the channel changes and the program guide disappears. If the program is upcoming, selecting it brings up a transparent screen with recording options. Choose an option or press LEFT arrow to go back to the guide. See page 47 for more information about using the program guide to find and record programs.


### ► Search by Title

If you know the name of the program you want to record, you can find it easily using Search by Title. Press the TiVo button to see TiVo Central. Press the DOWN arrow to highlight Pick Programs to Record and press SELECT.

As you can see, the Pick Programs to Record screen gives you many ways to find programs. Let's look for *The Simpsons*. Highlight "Search by Title" and press SELECT. The next screen is a categories screen. It lets you limit your search to any of several categories—but for now, choose "All Programs," then press SELECT.

The next screen has a grid of letters. Notice the white box around the letter *A*. Use the RIGHT, LEFT, UP, and DOWN arrows to move the box among the letters. Now move it to *S*, then press SELECT.



 **If you just finished Guided Setup and you go to Pick Programs to Record, you will see a message at the bottom of the screen stating that the Recorder is still indexing data. The Recorder should be done indexing within 4 to 8 hours of finishing Guided Setup.**



A list of programs that begin with “S” appears on the right side of the screen. Move the white box to the letter *I* and press SELECT again. The list changes. The TiVo service has searched through all available programs (usually, those airing in the next two weeks) to find those that begin with *SI*, then listed those programs.

Keep on entering letters until you see “Simpsons, The” in the list on the right. (Notice, the list alphabetizes without “A” or “The.”) If you make a mistake entering text, select DEL on the screen, or press BACK on the remote. To clear all text, use CLR on the screen or press the CLEAR button. Selecting SP on the screen enters a space.

To get to the list of programs, press RIGHT arrow until you move off the grid of letters. Press the UP or DOWN arrow to highlight “Simpsons, The” and press SELECT.

A Program Information screen appears. It lets you choose to record the episode, view upcoming episodes, or get a Season Pass.

### ► **Get a Season Pass**


On the Program Information screen for *The Simpsons*, highlight “Get a Season Pass,” and press SELECT. A confirmation screen appears to make sure the Recorder is doing what you want. Press SELECT again—and after a short pause you have a Season Pass to *The Simpsons*! Every episode on the selected channel will be recorded automatically.

You should now be on the Search by Title screen again. Press the LEFT arrow to return to Pick Programs to Record, then select the To Do List. You can see all your scheduled recordings here.

In the To Do List, notice the upcoming episodes of *The Simpsons* are marked with two check marks (✓✓), indicating they are part of a Season Pass. You can cancel the recording of any episode by highlighting the title in the To Do List and pressing CLEAR.



Once you’ve recorded some programs, come back for the next tour!




 If you schedule a lot of Season Pass recordings, it's a good idea to set priorities for them. You do this with the Season Pass Manager; see page 45 for more information.

## ►► Tour Three: Now Playing and Save To DVD

The last tour showed you how to find and record programs. Once a program has started recording, it appears in Now Playing—a list of all the programs stored on your Recorder. To go to Now Playing, press the TiVo button twice, or select Now Playing from TiVo Central®. Even if you haven't recorded anything, your new Recorder may have come with some entertaining short programs.

 An icon like this next to a recording in Now Playing tells you the recording's current status (see the Glossary of Icons on the inside back cover). You can watch any title in Now Playing—even one still being recorded. Just highlight it and press the PLAY (  ) button.

Try it now. Highlight a program and press PLAY (  ). (If there are no programs in Now Playing, go to live TV and start a recording so you can complete this tour.)

Now for the cool part—watch the program for at least 5 minutes (or just fast forward through some of it), then press LEFT arrow button to go back to Now Playing. This time, press SELECT on the program title. On the Program Information screen that appears, select “Resume Playing.” The program starts from where you left it!

**Keep until...** By default, the oldest programs you record may be deleted to make room for new recordings you've scheduled (they are usually kept at least two days). However, you always have the option to keep a program for as long as you want.

To change how long a program in Now Playing is saved, highlight it and press SELECT or RIGHT arrow. The Program Information screen appears. Select “Keep until....” On the next screen you can choose “Keep until I delete” or use the arrow buttons to highlight and change the date displayed. When you are done, press SELECT.



### ► **Saving a Program From Now Playing to a DVD**

Your Recorder not only records programs to Now Playing, it can also save programs from Now Playing to a recordable DVD. The rest of this tour shows you how. If you don't want to use a disc for the programs currently in Now Playing, you can still go through the tour, and just cancel before creating the disc.

**Put In a Disc.** First, you have to put a disc into the Recorder's disc tray. You can use either a "DVD-RW" disc, which can be saved to, erased, and copied to again, or a "DVD-R" disc, which can only be copied to once. You must use a "DVD" disc. The Recorder will not save to some DVD formats (such as those with a "+" sign), so make sure your blank disc is either DVD-RW or DVD-R. To insert a disc, press the OPEN/CLOSE button (▲) on the front of your Recorder, put in the disc with the blank, shiny side down, and then press OPEN/CLOSE (▲) again.

**Select a Program.** Go to Now Playing (if you are not there already, press the TiVo button twice), and highlight a program. Press SELECT to see the Program Information screen, then select Save to DVD or VCR, then Save to DVD. The next screen asks whether you want to save just the program you selected, or additional programs as well. For this tour, select "Save just this program." The following screen suggests a name for the disc, and asks if you want to use it or enter your own. For this tour, just select "Yes" to use the suggested name.

**Create the DVD.** At this point, you see the Confirmation screen. This is your last chance to cancel the save, so if you do not want to copy to the disc you have inserted, select "Don't save," otherwise select "Begin saving to DVD."

As you can see, there are more options than are covered here, but those are the basics. The next screen tells you how long it will take to save your program. When finished, you have a new DVD with your program on it! For further details, see page 61.



Some content may not be saved to DVD due to copy protection rights

over the material. For more details, see "Copy Protected Material" on page 64.

DVD recordings that you make using this

Recorder are for your personal use only.

You may not sell, lend, or rent them to other people.

3





## ►► Tour Four: Playing a DVD or CD

You must complete Guided Setup before you can play CDs, and play or record DVDs. For instructions, see “Completing Guided Setup” on page 23.

Playing a DVD or CD does not interfere with recording TV. However, you cannot watch live TV or recorded programs from Now Playing while playing a DVD or CD.





### ► Playing a Disc





To put a disc into the Recorder, press the OPEN/CLOSE (▲) button on the front panel of your Recorder to open the disc tray. Put in the disc with the label side facing up, using the disc tray guide to align it, then press OPEN/CLOSE again to close the disc tray. (For a full list of the different kinds of discs that are compatible with the Recorder, see page 80.)


**DVD Menu.** After you have inserted a disc, TiVo Central® changes to show that the Recorder is holding a disc. Highlight the DVD item on TiVo Central and press play to start the disc from the beginning. However, the DVD menu usually gives you more playback options.

To go to the DVD menu, press the DVD button on the Recorder’s remote control. Pressing the DVD button from most screens, from live TV, or while you are playing a DVD, goes directly to the DVD menu.


From the DVD menu, select Play to start the currently loaded disc. Go ahead and try it. (If you have a DVD disc in the tray and see a menu after you select Play, choose the option you want to view to start the video playing.)

**Controlling Playback.** While a disc is playing, you can press the PAUSE (  ) button, to pause the music or video, just as you would with live TV or with a program from Now Playing. Press PLAY (  ) to restart the program. PAUSE, PLAY, FORWARD (  ) and BACK (  ), all work with DVDs and CDs. In fact, while playing a DVD, all of the control buttons work as they would for live TV or a program in Now Playing. (See Tour One for details.)

Finally, while a disc is playing, the CHAN/PAGE button has SKIP FORWARD (  ) and SKIP BACK (  ) functionality. Press SKIP FORWARD (  ) to go to the beginning of the next chapter on a DVD or the next track on a CD. Press SKIP BACK (  ) once to go to the beginning of the current chapter or track; press it again to go to beginning of the previous chapter or track.

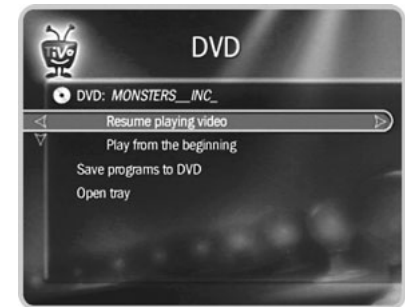
**Stopping and Resuming.** Press the STOP (  ) button. The disc stops playing and the Recorder goes back to the DVD menu.

Notice the DVD menu now has an option to “Resume playing.” If you want, you can go to Now Playing or live TV and watch something else. Then when you’re ready, you can press the DVD button to return to this menu and select “Resume playing.” Playback of the disc picks up right where you left off.

**Removing the Disc.** To remove the disc, just press the OPEN/CLOSE button (  ) on the front panel of the Recorder once to open the tray. Remove the disc, then press OPEN/CLOSE again to close the empty tray.



The Recorder can record to DVD-R and DVD-RW discs. It can playback most DVD-R and DVD-RW discs that contain video. It can also playback audio CDs and most CD-R and CD-RW discs that contain MP3 files. Playback control (such as FWD, REWIND and INSTANT REPLAY) is not available for MP3 files larger than 10 megabytes that were recorded with VBR (variable bit rate). For more information, see “Compatibility and Copy Protected Material” on page 64.





 Your personal TV preferences are just that: personal. See the TiVo

Privacy Policy in Chapter 9, and the Federal Trade Commission (FTC) White Paper available at [www.tivo.com/privacy](http://www.tivo.com/privacy) for more information.



The TiVo icon next to the title indicates that it was recorded as a TiVo Suggestion.



## ►► Tour Five: Finding New Programs

TiVo makes it easy for you to find new programs you might want to watch by responding to your interests and collecting the best the networks have to offer.

### ► **WishList™ Searches**

A WishList search automatically finds programs that match your tastes, passions, and whims on any channel you receive. And it keeps on searching for as long as you keep the WishList. Just enter your favorite actor or director's name, or any keyword, and your Recorder will find programs for you. Go to TiVo Central, then Pick Programs to Record, then Search Using a WishList. For more information, see page 54.

### ► **TiVo Suggestions**

TiVo Suggestions is a personalized list of shows selected to match your preferences. How is this magic possible? Any time you watch programs, live or recorded, or browse programs with the live guide, or in Showcases or TiVolution Magazine, you can rate them by pressing the THUMBS UP™ and THUMBS DOWN™ buttons (   ). You can give a program up to three Thumbs Up or three Thumbs Down. Also, any time you choose to record a program, it automatically gets one Thumbs Up.

Over time, the more shows you rate, the better TiVo Suggestions will be at finding programs you might like. The suggestions are listed under TiVo Suggestions in order of how closely they match your preferences.

Suggested programs based on your ratings appear in TiVo Suggestions. Go to TiVo Central, then Pick Programs to Record, then TiVo Suggestions. (If you don't see programs yet, come back later—it may take a few hours the first time.) The list of programs is ranked, so shows you are more likely to enjoy are near the top. If you want to record a program, select it and the Program Information screen appears.

**Auto-Recording TiVo Suggestions.** As an added bonus, when the Recorder has available space, it automatically records TiVo Suggestions. (You can turn this feature off if you prefer; see page 94.) You will find recorded TiVo Suggestions on Now Playing, listed below programs you requested. Or, if you have the Groups option turned on (see page 71), TiVo Suggestions recordings will appear in their own group.

It's important to remember these characteristics of TiVo Suggestions recordings:

- TiVo Suggestions never replace shows you request, or prevent your requested shows from being recorded.
- TiVo Suggestions are always the first programs deleted to make room for recordings you request.

Auto-recording TiVo Suggestions is an easy way to find programs you never knew about, or old favorites you may have forgotten.

## ► Showcases

Showcases is an interactive content area which often includes opportunities to schedule recordings of featured programs, or allows you to watch previews of upcoming movies or TV shows. The programs in Showcases are grouped in theme packages, giving you “one-stop shopping” convenience when browsing for programs to record. Packages may include exclusive content, the inside scoop on hit movies, exciting miniseries, special events, popular series, and shows featuring the biggest stars of the screen and stage.

**TiVolution® Magazine** is one part of Showcases where you'll always find something fun and different. It's a guide to the best upcoming shows on television. Select a title to see the Program Information screen. If you get the channel that airs the program, you can set up a recording here—it's that easy! Showcases and TiVolution Magazine are updated during your Recorder's regular connection to the TiVo service.



If other members of your household are pressing THUMBS UP on shows you don't care for, and vice versa, you may find that TiVo Suggestions is making some suggestions that you like, and some that are more appropriate for other members of your household.

3





## ►► Cool Things You Can Do



Other DVRs connected to your home network appear at the bottom of the Now Playing list.




**Never, ever be late for your favorite programs!** Your co-worker just told you about a must-see program that's on tonight, but you won't make it home in time to set up a recording. No problem! If your Recorder is connected to a home network with a broadband Internet connection, you can use TiVo Central Online ([www.tivo.com/tco](http://www.tivo.com/tco)) to schedule the recording. It will be waiting for you when you get home. See page 53.

**Connect your Recorder to your home network.** When you do, your Recorder becomes a digital home entertainment center, with access to even more features. See Chapter 7.

**Multi-Room Viewing.** Record programs in the living room and watch them in the bedroom—or vice versa. If you have more than one TiVo® Series2™ DVR connected to your home network, you can transfer programs between them.

**Enjoy digital Music & Photos—from your sofa!** Connect your Recorder to your home network, and you can watch slideshows of your digital photos on your big screen TV, and listen to playlists of your MP3s on your stereo system.

**Looking for good movies? Kids' shows? Science fiction?** With Search by Title, you can browse upcoming programs by category. See page 49.

**See a good preview, record the show.** If you're watching live TV and a promotion comes on for an upcoming program, you may see an Ipreview™ icon like this one:  Press THUMBS UP™ while the icon is visible to see options for recording for the program. You don't have to remember when it's on—it will be recorded! (If you accidentally fast-forwarded past the Ipreview icon, rewind until it's visible again.)

**Use the Overtime Scheduler™ (and don't miss overtime!).** Programs sometimes start before they're supposed to, and often end later than scheduled. You can adjust your recording times to account for variations using the Overtime Scheduler. See page 44.



# Recording Programs and DVDs

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<b>Using the Guide to Find Programs</b>	<b>47</b>
<b>Find Your Favorite Programs</b>	<b>49</b>
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## ►► Season Pass, Recording Options, To Do List

Your HUMAX DVD Recorder makes finding and recording TV programs easy—so easy that you may find more programs you enjoy than you ever expected! Your Recorder can help with this too, by giving you simple ways to manage your recordings.

### ► Season Pass and Other Repeating Recordings


There are three types of recordings that repeat automatically:

- **Season Pass™ recordings.** Records every episode of a series that airs on a certain channel—even if the day or time changes! It's automatic and easy to set up. Just select a program (in the TiVo Live Guide, or search results) and choose “Get a Season Pass.”
- **Manual Repeating Recording.** Records on a specific channel at a specific time, just as you would with a VCR. See page 52 for more information.
- **Auto-recording WishList™ search.** Records all programs found by a WishList search. See page 58.

These three types of repeating recordings also have the following in common:

- **No duplicates within 28 days.** If you watch or delete a particular episode or showing, it will not be recorded automatically again for 28 days. This prevents Now Playing from filling up with shows you probably don't want. If you want to record duplicates, go to Recording Options, Show Type, and select “All (with duplicates).” You can also schedule a single duplicate recording for a particular program.
- **Parental Controls.** If Parental Controls are on when you schedule a repeating recording, the Recorder checks its current program information to see if any upcoming program violates a Parental Control. If it does, the Recorder requires the password to continue. See page 89 for more information.



 An exception to the 28-day rule may occur if the program wasn't watched but was automatically deleted from Now Playing to make room for another recording you requested—or if the program information describes it incorrectly.

- **Keep at Most.** By default, five episodes of a repeating recording program are kept in Now Playing. You can change this setting; see page 44.
- **Resolving conflicts.** The TiVo service resolves scheduling conflicts between repeating recordings by comparing recording priorities. You can change recording priorities with the Season Pass Manager. (See page 44 for more details).

### ► Recording Options

You can set Recording Options when you set up a recording, or any time later by selecting the program from the To Do List or the Season Pass Manager, and choosing “Options.”

**Setting Recording Options.** The Program Information screen that appears when you select a program includes choices to “Record this episode” and “Get a Season Pass.” When one of these recording actions is highlighted, “Options” appears to its right. To see the current Recording Options, use the arrow buttons to highlight “Options,” then press SELECT.



Recording Options

To set your Recording Options:

1. Use the UP/DOWN arrows to highlight an option on the Recording Options screen.
2. Use RIGHT and LEFT arrow to change the setting.
3. When you are done, press SELECT or highlight “Record with these options.”
4. Press SELECT again to schedule the recording with the new options.

To cancel your changes, press LEFT arrow, or highlight “Don’t change recording options” and press SELECT.



Recording Options: one-time recording



Recording Options: repeating recording



Are two of your favorite programs on at the same time? If you use

Recording Options, you can create two Season Pass recordings for the same time. Set the first one to record only first run episodes; set the second to record every episode. Use the Season Pass Manager (described on page 45) to give the first one higher priority than the second. Voilà! As long as the program information is correct, when reruns of the first program air, your Recorder will ignore them and record episodes of the second program.

**Recording Options** include:

**Record Quality.** The choices for Recording Quality are Basic, Medium, High, and Best. The default setting is High. (Best looks great, but keep in mind that it takes up more space.) These settings are described on page 93. (This option is not available once a recording starts.)

**Keep At Most.** This option sets the maximum number of episodes to be saved—useful for keeping only the most recent nightly news or only a few of your kids' daily programs. The default setting is 5. (This option is available only for a repeating recording.)

**Show Type.** The choices are “Repeats & first run,” “First run only,” and “All (with duplicates).”

**Keep Until.** You can change this setting from “Space needed” (the default setting) to “Until I delete.” (This option is available only for a repeating recording.)

**Keep At Least.** You can set the minimum amount of time the Recorder keeps a recording. The default setting is “Until Space Needed.”

**The Overtime Scheduler®** consists of these two options:

**Start Recording.** You can choose to start recording up to ten minutes before a program begins. The default setting is “On-time.” (This option is not available once recording starts.)

**Stop Recording.** You can set a recording to continue—for a few minutes or up to three hours—after it's scheduled to end. For example, you can extend a recording of a sports event and be sure to catch the whole game—even if it goes into overtime. You can change this setting when you set up the recording, or while the recording is in progress! The default setting is “On-time.”

## ► Season Pass Manager

Say you have a Season Pass to *ER* and an auto-recording WishList for movies with Julia Roberts. What if a Julia Roberts movie happens to air at the same time as *ER*? The Recorder will check the priorities in the Season Pass Manager to decide which program to record. If the Julia Roberts WishList has a higher priority than the *ER* Season Pass, the Julia Roberts movie will be recorded, and *ER* will not.

**Changing the priority order.** If you don't change priorities in the Season Pass Manager, repeating recordings are prioritized by the order they were set up: the first has highest priority, and so on. To change the priority order:

1. Use the UP/DOWN arrows to highlight one of your repeating recordings.
2. Press RIGHT arrow to highlight the arrows to the right of the title.
3. Use the UP/DOWN arrows to move the selected title up or down in the list.

**Priorities and resolving conflicts.** If a conflict occurs when you're setting up a new repeating recording, you'll be shown which programs are involved. You'll also be given options to resolve the conflict:

- Record only those programs that do not conflict with others previously scheduled to record. This gives the repeating recording the lowest priority.
- Record all programs requested. This gives the repeating recording the highest priority.

**Canceling a Season Pass.** To cancel a Season Pass, just highlight the program's title in the Season Pass Manager and press CLEAR. Or, from a Program Information screen, select "Cancel/edit the Season Pass," then "Cancel this Season Pass."





### ► **To Do List**

The To Do List shows all your scheduled recordings and lets you cancel or edit them. Individual recordings are marked with a single check mark (✓). Season Pass recordings and manual repeating recordings have a double check mark (✓✓), and WishList recordings have a star (★). Press SELECT on any program to see available edit options.

**Canceling a recording.** To cancel an upcoming recording from the To Do List, highlight the title and press CLEAR.

### ► **View Recording History**

This is an advanced feature in the To Do List for those who really want all the details. Selecting this option takes you to a list of three types of programs:

**Deleted.** To find programs that were deleted, press the UP arrow or CHAN UP. (You will find these programs listed above the point where the highlight bar starts off.) Selecting a title will take you to a screen that tells you how and when the program was deleted.

**Were not recorded.** To find programs that were not recorded, press the UP arrow or CHAN UP. (You will find these programs listed above the point where the highlight bar starts off.) Selecting a title will take you to a screen that tells why it was not recorded.

**Will not be recorded.** To find programs that will not be recorded, press DOWN arrow or CHAN DOWN. (You will find these programs listed below the point where the highlight bar starts off.) Selecting a title will take you to a screen that tells you why the program will not be recorded. You can then select “More recording options” on this screen, which will display the Program Information screen. You could choose “View upcoming episodes” to find an episode that doesn’t conflict with anything else, or change Recording Options, which may allow the program to be recorded.



## ►► Using the Guide to Find Programs

The TiVo service provides a program guide that displays up to two weeks of TV programming at the touch of a button. You can use the guide to quickly find programs and set up recordings by customizing the channels and filtering the types of programs shown in the guide. To view the guide, just press the GUIDE button on your TiVo remote.

### ► Customizing the Guide

The guide has options that let you quickly change what programs and channels it shows. To see Guide Options, press ENTER while the guide is displayed. Available options are:

**Channels.** Choose which channel list you want the guide to display. For details on how to customize these channel lists, see page 86. The three channel lists are:

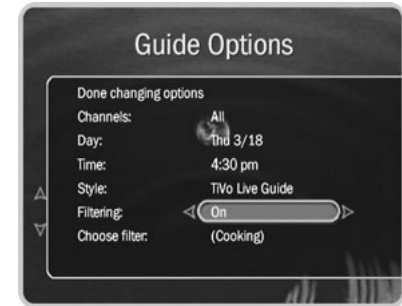
- **You Receive.** This is the default list. It displays only the channels you have chosen in the Channels You Receive channel list.
- **Favorites.** This list shows only your favorite channels when browsing the guide.
- **All.** This list displays all of your cable or satellite provider's channels, even channels you don't subscribe to.

**Day and Time.** Sets the guide to show what's on at a particular day and time.

**Style.** Choose between the TiVo Live Guide and Grid Guide styles. (For details about the differences between these two styles, see page 69.)

**Filtering.** Turns filtering on or off. (Choosing a filter is explained below.) When you want to see all channels and programs in the guide, turn filtering off.

**Choose filter.** Use the UP and DOWN arrows to highlight a category in the list, then press SELECT. Choose a subcategory. The guide displays only channels with programs in that subcategory.



**When filtering is on, the guide will show only channels that have a program in that category within six hours of the day and time selected. Programs that don't fit your category are grayed out.**

**Changing a guide option.** Highlight the option, then press the LEFT or RIGHT arrow to change the selection displayed. Save your changes by pressing SELECT or GUIDE. To cancel your changes, press CLEAR.

► **Recording a Program from the Guide**

To record a program, highlight it in the guide, then press RECORD. On the transparent screen that appears, select “Record this showing (Best Quality)” or “Season Pass & other options” for more choices. (See page 42 for more on Season Pass recordings and page 43 for more on Recording Options.)

► **Recording the Program You Are Watching**

You can always record the program you are watching: just press the RECORD button. On the transparent screen that appears, select “Record this showing (Best Quality).” Select “Season Pass & other options” for more choices, or to change the recording quality.

**Recording the Saved Portion.** Up to 30 minutes of the current channel’s broadcast is always being saved, even when you are not recording a program. When you change channels, the Recorder clears what it has saved and starts saving again on the new channel. (So, if the saved portion is important to you, either record it or don’t change the channel.)

To record the saved portion—in addition to the rest of the program—you must choose “Record this showing (Best Quality).” If you change the Recording Quality (by selecting “Season Pass & other options”), the saved portion of the program won’t be recorded.

**Stopping a recording.** You can stop any recording in either of two ways: select the title in Now Playing, then select “Stop Recording;” or, press the RECORD button in live TV, then choose “Stop the current recording.”





## ►► Find Your Favorite Programs

### ► Search by Title

If you know the name of the program you're looking for, or even the first part of the name, choose Search By Title from Pick Programs to Record. Then follow these steps:

1. If you wish, you can first narrow the search with a category and subcategory.
2. The next screen has a grid with numbers and letters. Spell out the title using the arrow buttons to move, then pressing SELECT on each letter you want. (Skip "a," "an," or "the.") As you select letters, an alphabetical list of programs appears on the right. Keep selecting letters until you see your program.





You can use the TiVo remote for some functions too. The CLEAR button on the remote erases everything; BACK erases one letter at a time; FORWARD inserts a space.

3. When you see your program, press RIGHT arrow until the highlight is in the list. To move the highlight within the list, press the UP and DOWN arrows. To move quickly up or down the list one screen at a time, press CHAN UP/DOWN.
4. Press SELECT when the title you want is highlighted. The Program Information screen will appear. Then you can view upcoming episodes, set up a Season Pass, or record an individual showing.

**Browsing a category.** You can browse through programs in any category and subcategory you choose. Numbers come before letters, so to start from the top of the list, enter a zero.



 If you only know one word in the title, use a Title Wishlist to find the program. See page 54 for details.

 Replace hyphens (-), slashes (/) and periods (.) with spaces. For example, use 20 20 to search for the title "20/20." Any other marks, such as apostrophes ('), asterisks (\*) and ampersands (&) are ignored. For example, you would use 6 OCLOCK NEWS to search for the title "6 O'Clock News."



### ► **Record by Time or Channel**

Three options are available under Record by Time/Channel: Browse by Time, Browse by Channel, and Manually Record Time/Channel.

**Browse by Time.** Browse by Time lets you browse all programs on a particular day and time. With Browse by Time, you can filter the list to see only programs in a particular category. For example, you can browse all the movies airing on Saturday night. To browse by time:

1. Use the arrow buttons to highlight a category (for example, “Movies”) to narrow the list of programs, then press SELECT.
2. Press the UP and DOWN arrows to select the date you want to see, then press RIGHT arrow to move the highlight to the time column.
3. Press the UP and DOWN arrows to select a time.




4. Press SELECT to bring up the list of programs without leaving the time selector, or press RIGHT arrow to bring up the list of programs and move to the list at the same time.
5. When you find a program you want to record, highlight it and press SELECT to bring up the Program Information screen. Then you can view upcoming episodes, set up a Season Pass, or record an individual showing.

**Browse by Channel.** Browse by Channel lets you browse through programs airing on a particular channel. You can start with all channels, or just your favorites. To browse by channel:

1. Highlight and select either “All Channels,” which includes all the channels you receive, or “Favorite Channels,” which includes just the channels you have selected as your favorites. (For information on creating your own list of Favorite Channels, see page 86.)
2. Press the UP and DOWN arrows to select the date you want to browse, then press RIGHT arrow to move the highlight to the channel column.
3. Press the UP and DOWN arrows to select a channel. (You can also use the numbers on the remote to enter a channel, then press ENTER.)
4. Press SELECT to see the list of programs without leaving the channel selector, or press the RIGHT arrow to see the list of programs and move to the list.
5. When you find a program you want to record, highlight it and press SELECT to bring up the Program Information screen. Then you can view upcoming episodes, set up a Season Pass, or record an individual showing.





 **Use a Manual Repeating Recording**  
to record things like just the  
opening monologue of a late night talk  
show.

**Manually Record Time/Channel.** Manually Record Time/Channel lets you schedule a recording on a specific channel at a specific time (just as you would with a VCR). You can also create a manual repeating recording here by setting the recording to repeat every week, every day, or every weekday. To create a manual recording:

1. Choose the recording type, using the UP and DOWN arrows to select “One Time,” or “Repeating.” Then press RIGHT arrow.
2. Choose the day(s) for the recording, using the UP and DOWN arrows to change the current selection. If you chose “Repeating,” you can choose to repeat the recording on a specified day of the week (for example, “Every Tuesday”) or several times a week (for example, “Every M - F” or “Every Day”). Then press RIGHT arrow.
3. Choose a channel using the UP and DOWN arrows (or by entering a number with the remote, then pressing ENTER). Press RIGHT arrow.
4. Set the hour, minute, and am/pm for the start and stop time, using the UP/DOWN arrows to change the current selection. Press RIGHT arrow to move to the next step, LEFT arrow to move back.
5. Schedule the recording by pressing SELECT. A confirmation screen appears. (The recording will be named with a “best guess” based on program guide listings for that time and channel. This will help you find your program later in the To Do List or in Now Playing.) When you’re ready to schedule the recording, just press SELECT.

## ► Using Online Scheduling to Find Programs (TiVo Central Online)

You can schedule recordings on your Recorder at home from any computer with Internet access and a standard web browser. Use TiVo Central Online at [www.tivo.com/tco](http://www.tivo.com/tco) to search for shows by time, title, keyword, or actor/director. You can record a single episode or get a Season Pass™, with all the recording options you have on your Recorder at home. You can even set the program not to record if it conflicts with a scheduled recording that is already on your Recorder.

Using Online Scheduling doesn't require any changes to your current setup. However, if your Recorder is connected to a home network (see Chapter 7) that includes a broadband Internet connection, it will check the TiVo service for your recording requests much more often. With a broadband Internet connection, you can schedule a recording within an hour of its air time from any place that you have access to the Internet!

### To Use Online Scheduling:

1. Go to [www.tivo.com/tco](http://www.tivo.com/tco) and sign in.
2. On the Welcome page of TiVo Central Online, select the name of the Recorder for which you want to schedule recordings.
3. Use the simple or advanced search of your TV listings, or browse by channel.
4. From the list of search results, click the name of a program and choose:

**Record this episode** — to record the program and specify the priority and quality.

**Get a Season Pass** — to record this program every time it airs on this channel.

You can choose to receive a confirmation e-mail sent to the e-mail address you provide.



Each time your Recorder connects to the TiVo service, it checks TiVo

Central Online and schedules any recording requests you've made.





## ►► Find Programs That Match Your Interests

### ► Try a WishList™ Search

If you know what you like, WishList searches are great! A WishList search automatically finds programs that match your interests, tastes, passions, and whims on any channel you receive. And it keeps on searching for as long as you keep the WishList. For example:

- You could create a **Category Only WishList** for the category “Movies” and subcategory “Comedy.” You could then use it occasionally to look at a list of all comedy movies airing in the next two weeks. The list would be updated each time your Recorder connects to the TiVo service.
- You could search for something more specific by creating an **Actor WishList** for Sean Connery, and then include the category “Movies,” and subcategory “Action.” This WishList would only find action movies starring Sean Connery.
- With a **Keyword WishList**, you can look for something very specific. For example, the Keyword WishList *GIANTS* with category “Football” would find Giants football (but not baseball) games for you.

### ► Can a WishList Do More Than Search?

Yes it can! You can set a WishList to auto-record, and it will record every program the WishList finds, on any channel you receive. For example, with the Sean Connery Actor WishList, you would automatically collect Sean Connery action movies in Now Playing.

Some WishList searches are better suited to browsing than to auto-recording. For example, a Category Only WishList for the category “Documentary” would find every upcoming documentary. You might not want to record every documentary, but you could occasionally browse the WishList and choose the ones you do want to record. The more specific a WishList search is, the better suited it is to auto-recording.

## ► Creating a WishList Search

From Search Using a WishList, select “Create new WishList.” Next, select the type of WishList: Actor, Director, Category Only, Keyword, or Title. For most WishList searches, you use the grid of letters on the next screen to spell out what you’re looking for.

As the last step, you’ll then be able to select a category and subcategory to narrow your search. For example, if you want movies with Harrison Ford, but not documentaries or talk shows, select “Movies.” To search every category, select “Don’t specify a category.”

**Category Only WishList.** Use the UP and DOWN buttons to highlight a category, then press SELECT or RIGHT arrow. A subcategories list appears. Highlight a subcategory, then press SELECT or RIGHT arrow. To search all subcategories, you can also select “Don’t specify a subcategory.”

**Actor or Director WishList.** Spell the person’s last name using the arrow buttons to move the selection box around the grid; press SELECT to enter a highlighted letter. As you select letters, a list of names appears to the right of the grid.

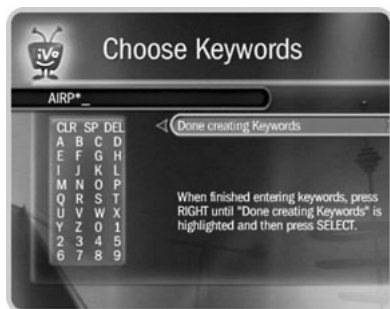


If you see the person’s name, press RIGHT arrow until you move the highlight to a name in the list. Use the UP or DOWN arrow to highlight the name you want and press SELECT.

To search for a name that is not on the list, enter the name in the format: *LAST NAME, FIRST NAME*. You must match the spelling of the name exactly, and you must use a comma (available in the grid under the letter *W*).







**Keyword or Title WishList.** You can create a Keyword or Title WishList with one keyword or with several. For a Keyword WishList, the TiVo service checks for your keywords in the program or episode title, description, actor, director, year, and category information. A Title WishList works very similarly, but the TiVo service only searches program and episode titles.

Spell your keyword(s) using the arrow buttons to move around the grid; then press SELECT to enter the highlighted letter. You can enter as many characters as will fit on the screen. When you have finished, use RIGHT arrow to highlight “Done creating keywords,” then press SELECT or RIGHT arrow.




**Using \* in WishList searches.** To search for similar words in a Keyword or Title WishList, use the asterisk (\*) as a special symbol that replaces the endings of words. For example, the keyword AIRP\* would find shows containing “airport,” “airplane,” “airplanes,” as well as the movie “Airplane!” To enter an asterisk, press the SLOW (⏮) button on the remote.

The asterisk can be helpful when you’re looking for a range of similar words, or if you’re just not sure how something is spelled. Pop quiz: is it “irresistable” or “irresistible?” Use the keyword *IRRESIST\** and don’t worry about it! Remember, when using the asterisk:

- It can be used only at the end of a keyword; it cannot be used to omit letters at the beginning or in the middle of a word. (For example, keywords like *AIR\*NE* or *\*PLANE* will not work.)
- When using this symbol, be as specific as possible. For example, do not use keywords like *TH\**. There will not be enough room to show all the results of a keyword that is too general.



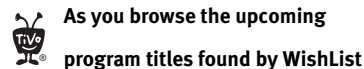
**Tips for entering keywords:**

- To specify an exact phrase in a Keyword or Title WishList, surround a set of words with quotation marks (to enter quotation marks, press PAUSE (  ). For example, the keyword *PAUL SIMON* might also turn up a documentary about Simon Bolivar with a director whose name is Paul. Use "*PAUL SIMON*" to be certain you find only programs that feature Paul Simon.
- If you enter more than one keyword in a Keyword or Title WishList, it finds only programs that match all of your keywords (for example, "*GEENA DAVIS*" *FLY*).
- If you want to include an exact phrase and additional keywords, there should be a space between the final quotation mark and the beginning of the next word. You can enter a space by selecting SP on the grid of letters or by pressing FORWARD (  ).
- Replace hyphens ( - ), slashes ( / ) and periods ( . ) with spaces. For example, you would use the keyword *20 20* to search for the title "20/20." For an Actor WishList for Catherine Zeta-Jones, use *ZETA JONES*, *CATHERINE*. You can enter a space by selecting SP on the grid of letters or by pressing FORWARD (  ).
- Any other marks, such as apostrophes ( ' ) and ampersands ( & ), are ignored. For example, you would use the keyword phrase *6 OCLOCK NEWS* to search for the title "6 O'Clock News." (Note that commas ( , ) are also ignored, except in an actor or director WishList, where they are essential.)
- For dollar signs ( \$ ) substitute the letter S. For example, to find "\$100,000 Pyramid," use *S100000*. (In Search by Title, skip the dollar signs to find these titles.)



If you like music performances, try a keyword WishList for "Concert."

Choose the category "Arts" and the Sub-Category "Music."



**As you browse the upcoming program titles found by WishList**

searches, remember that the **CHAN UP/DOWN** button pages quickly through lists.



### ► **Browsing, Recording, and Editing a WishList**

**Browsing all WishList searches.** Select “View all upcoming WishList programs.” This selection displays a list of up to 10 upcoming programs from each of your WishList searches—and up to 200 programs total (so it may take a long time to display). To record a program, select its title; you will see the Program Information screen, where you can select “Record this episode” and other actions.

**Browsing an individual WishList.** Select the WishList you want to browse, then select “View upcoming programs” to see a list of up to 200 unique upcoming programs that match the WishList. To record a program, select its title to see the Program Information screen, then select “Record this episode.”

For a comprehensive list of all upcoming showings of a program, including repeats (multiple showings of the same program), select the title of the program in the “Upcoming Programs” list. On the Program Information screen that appears, select “View upcoming episodes/showings.”

**Auto-recording WishList.** When you create a WishList or select it, you can choose the action, “Auto-record WishList programs.” This means every program the WishList finds will be automatically recorded.

Each auto-recording WishList and its upcoming recordings are marked with a star (★). If you want to be sure that all the matches your auto-recording WishList finds are recorded, give the auto-recording WishList a high priority in the Season Pass Manager. (See page 44 for details.)

**Editing a WishList.** You can change a WishList—for example, to correct a misspelling, or to add a category or subcategory to narrow the results. Just select the WishList, then select “Edit WishList.”

## ►► Record from a Video Camera or VCR

In addition to recording your favorite TV programs, your HUMAX DVD Recorder can also record from a video camera or VCR—the first step in transferring your home movies to DVD. These recordings appear on the Now Playing list, with titles you choose.

Recordings you make from a video camera or VCR have much in common with recorded TV programs. For example, if the recording causes disk space conflicts or upcoming program schedule conflicts, you will be notified and given the option to continue or cancel. You can also set the recording quality, and specify how long the recording will be saved on the Now Playing list.

While recording from a video camera or VCR, all other Recorder functions are unavailable. No TV programs will be recorded, and you cannot watch live TV, play DVDs or CDs, or watch other recordings from Now Playing.

### ► Setting Up the Recording

1. Connect your video camera or VCR to the Recorder using the inputs on the its front panel. Choose the best input(s) that will work with your video camera or VCR:

**S-Video.** If you use an S-Video cable to connect your video camera or VCR, you will also need to connect the red and white ends of a Composite A/V cable for audio.

**Composite A/V.** Use the yellow end of a Composite A/V cable for video, and the red and white ends for audio. If your video camera or VCR has only one audio out jack, use just the white end.

**DV.** If your video camera or VCR has a DV output jack, this is the best connection to use. A DV cable (not supplied) carries both audio and video.

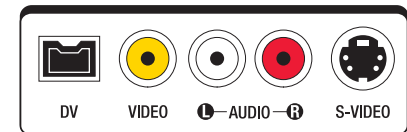
2. From TiVo Central<sup>®</sup>, select Pick Programs to Record, then Record from a Video Camera or VCR.

TiVo Central ► Pick Programs To Record ► Record from a Video Camera or VCR



Some content may not be saved to DVD due to copy protection rights over the material. For more details, see “Copy Protected Material” on page 64.

DVD recordings that you make using this Recorder are for your personal use only. You may not sell, lend, or rent them to others.



These input jacks are located behind a small door on the Recorder's front panel.

3. The Recorder reminds you that all other functions are unavailable while recording from a video camera or VCR. Select “Yes, continue” to proceed.
4. Select the input you used to connect your video camera or VCR to the Recorder.
5. Choose a name for your recording. Use the arrow buttons on the remote to highlight a character, and press SELECT to enter it. You can use the THUMBS UP™ and THUMBS DOWN™ buttons to change to uppercase or lowercase letters. Select “Done entering name” when you are finished.
6. On the Recording Options screen, specify the recording quality you want to use, and how long you want the recording to be saved on the Now Playing list.

If you used the Recorder’s DV input to connect your video camera or VCR, your Recording Quality choices are Best or High quality.

7. On the next screen, set the length of the recording. You can always press STOP to end the recording earlier than you estimated.

After setting the recording length, you will be notified of any recording conflicts, just as you would if you were scheduling any other recording. You can cancel any conflicting recordings, change your recording length, or choose “Don’t record from camera/VCR now.”

8. Choose the starting point for your recording by playing video from your camera or VCR, then pausing when you’re ready to start recording.
9. The Recorder gives you a 15 second countdown before recording begins. Press PLAY on your video camera or VCR when the countdown reaches zero.

When the recording is complete, you will find its title (the name you gave to the recording) on the Now Playing list.



**You can play, pause, instant replay, and slow-motion recordings from a video camera or VCR just like any other program on the Now Playing list. You can even save them to a DVD! See page 61 to learn how.**

## ►► Recording a DVD

Your Recorder can save programs from the Now Playing list to a recordable DVD. Some content may not be saved due to copy protection rights over the material. For more details, see “Copy Protected Material” on page 64. Saving to DVD does not interfere with recording TV programs or watching live TV.

### ► What Can Be Saved

Only programs in Now Playing can be saved to a DVD. (Now Playing can contain content recorded from live TV, a video camera, or video tapes.) Programs must have completed recording to Now Playing before being saved to DVD. The following are reasons the Recorder might not be able to save a program to DVD:

- Some programs might not be saved due to copy protection rights over the material.
- Programs transferred to this Recorder from a different kind of TiVo DVR via the Multi-Room Viewing feature cannot be saved to DVD.
- If a recording is less than 2 minutes long, it cannot be saved to DVD.

### ► Save Programs to DVD

There are two ways to save programs to DVD. One method is to select “Save to DVD or VCR” from a recording’s Program Information screen. This is useful if you only want that single program on the DVD. See page 35 for instructions.

If you want to save several programs to the same DVD, follow these steps:

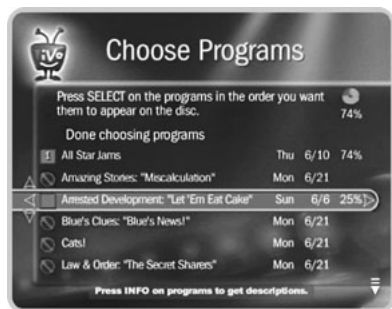
1. From TiVo Central®, select DVD, then “Save programs to DVD.”
2. Insert a DVD-RW (rewritable) or a blank DVD-R (record once) disc. If you re-use a DVD-RW disc, all of the programs on it will be erased. For a complete list of compatible discs, see page 64.






**Some content may not be saved to DVD due to copy protection rights over the material. For more details, see “Copy Protected Material” on page 64.**

**DVD recordings that you make using this Recorder are for your personal use only. You may not sell, lend, or rent them to others.**





 If you choose to record only one program and it is too large to fit on a single DVD, the Recorder will attempt to save segments of it to multiple DVDs.

3. Choose the programs you want to save onto the DVD. Programs in Now Playing that can be saved have an empty box next to them (☐); programs that cannot be saved have a red circle with a slash () . To choose a program, highlight it and press SELECT. A checkmark appears in the box next to the program title.
  - You can select as many programs as will fit on a DVD (several short programs or fewer longer ones), up to a maximum of 24. Programs that can be saved but will not fit with the other programs selected on the current disc have a red “x” beside them () .
  - Programs will be recorded in the order you choose them. To change the order, remove programs from the list by highlighting them and pressing SELECT; then select them again in the order you want them to record.
  - The percentage wheel in the upper right-hand corner of the screen provides a close estimate of how much of the DVD would be filled by the selected programs. It updates automatically.
4. When you are ready to continue, press RIGHT arrow, or select “Done choosing programs.” If you are copying a single program that is too large to fit on a DVD, you see the Choose Part to Save screen. You can use the RIGHT and LEFT arrows to change the part that will copy. Press SELECT to continue.
5. If you are saving only one program, the Recorder suggests using that program’s name for the DVD. You can use that name or choose to enter a different name.
 

To name the DVD, use the arrow buttons on the remote to highlight a character, and press SELECT to enter it. You can use the THUMBS UP™ and THUMBS DOWN™ buttons to change to uppercase or lowercase letters. Select “Done entering name” when you are finished.

6. Confirm your selections and start the saving process. While your DVD is being created, the current status is displayed. If you go to another screen, or to live TV, press the DVD button to return to the status screen. If saving to DVD causes disk space conflicts, you will be notified and given the option to continue or cancel.

You can cancel Save to DVD while it is in process. You will be notified whether the disc can be re-used (DVD-RW) or not (DVD-R).

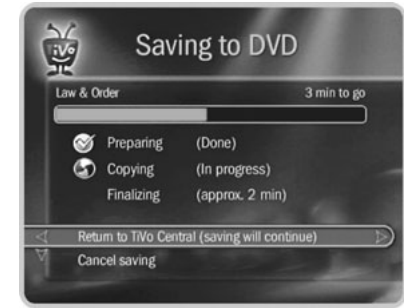
### ► **Finalizing the Disc**

All DVDs are automatically finalized at the end of the DVD recording process.

Finalizing means:

- A title is created for each program saved. Chapter marks are placed every 5 minutes. You cannot turn chapter marks off.
- A DVD “Disc” menu is created that lists the title of each program on the disc.
- DVDs you create have no DVD Parental Controls rating, so they cannot be blocked by Parental Controls unless Parental Controls are set to block all DVDs. See page 89.
- The closed captioning of the original program is maintained.

After the DVD is finalized, you’re done! To play your new DVD, press the DVD button on your remote, then press PLAY. For more about playing DVDs, see page 73.





Some discs recorded using a DVD recorder, CD recorder, or personal computer may not be playable in this Recorder even though they were made with software that is compatible with the Recorder. Some possible reasons for this include:

- the type of disc used
- damage, dirt or condensation on either the disc or in the Recorder's disc drive
- other reasons related to specific formats; see the notes about individual formats in this section



Copy protected video includes DVD-Video discs, and some satellite and cable broadcasts.

**When portions of a program are copy protected, they cannot be saved to DVD.**

**The Recorder will only save the portions of the program that are not protected.**

## ►► Compatibility and Copy Protected Material

### ► Recording Disc Compatibility

**Size.** The Recorder can record video to 12 cm. discs, the standard for DVDs.

**Format.** The Recorder can record to DVD-R and DVD-RW discs. (It does not record DVD+R or DVD+RW discs.) The blank DVD disc packaging should be marked with one of these logos:



The Recorder is compatible with DVD-RW Ver. 1.1 and Ver. 1.1/2x, and DVD-R Ver. 2.0 and Ver. 2.0/4x.

### ► Playback of Discs You Record

This DVD recorder records in *Video Mode*, which is the use of the DVD-Video format for recording on DVD-R and DVD-RW discs. DVD discs saved using this Recorder can be played on regular DVD players, including computer DVD drives compatible with DVD-Video format. However, support for playback of DVD-R and DVD-RW discs is optional for manufacturers of DVD playback equipment, and there is DVD playback equipment that does not play DVD-R or DVD-RW discs recorded in the DVD-Video format.

### ► Copy Protected Material

You may use this Recorder only to reproduce or save materials for which you own the copyright or have obtained permission to copy from the copyright owner, or for which you otherwise have a legal right to reproduce or copy. Unless you own the copyright or have obtained permission from the copyright owner or otherwise have a legal right to reproduce or copy, you may be breaking the law, including applicable copyright laws, and may be subject to payment of damages and other remedies.



# Watching Programs and Playing Discs

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## ►► Using the Control Buttons

Part of the fun of watching programs with the HUMAX DVD Recorder is the ability to control what you're watching. The best part is, the pause, instant replay, slow motion, and other control features work whether you're watching live TV, recordings, or DVDs.



**Most of the control buttons on your remote work when playing audio**

**CDs too. See page 77 for more information.**



**When you fast forward too far, press**

**INSTANT REPLAY to jump back eight seconds. Press it again if you really missed the mark.**



**RECORD.** Records a program when you're watching live TV or browsing the program guide.



**PLAY.** Plays a program at normal speed. Shows the status bar for three seconds.



**PAUSE.** Pause live TV for up to 30 minutes; pause a recorded program, DVD, or CD for as long as you want. To resume playing, press PAUSE again (or PLAY).



**BACK.** Rewinds a program. Press BACK once, twice, or three times to go backward fast, faster, or fastest. Press it a fourth time to return to normal speed.



**FORWARD.** Fast forwards a program. Press FORWARD once, twice, or three times to go forward fast, faster, or fastest. Press it a fourth time to return to normal speed.

**Frame Forward or Back.** Press PAUSE, then press the FORWARD or BACK button. The picture moves a small step forward or backward.



**INSTANT REPLAY.** Instantly jumps back eight seconds and resumes playing.



**ADVANCE.** In live TV, catches up to the live broadcast. When you are fast forwarding or rewinding in a recorded program, DVD, or CD, press ADVANCE to instantly jump ahead or back to the next tick mark. While playing a recording, DVD, or CD, press ADVANCE once to jump to the end of the recording, and again to jump to the beginning.



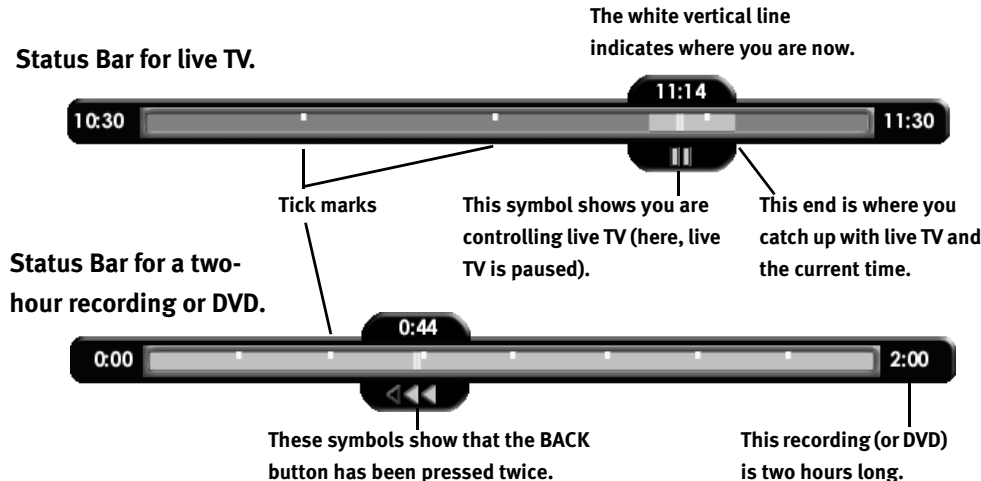
**SLOW.** Plays the program in slow motion.

## ►► The Status Bar

When you press PLAY, PAUSE, FORWARD, or BACK, the status bar appears at the bottom of the screen. Whether you're watching live TV, a DVD, a recorded program, or listening to a CD, the status bar shows where you are and what you're doing.

In live TV, the status bar represents one hour and the white tick marks are 15 minutes apart. In recorded programs and DVDs, the bar shows the program's length, and the tick marks are evenly spaced depending on the length of the program. A white vertical line shows where you are in the program.

In live TV, the green segment represents the part of the program saved by the Recorder. The right edge of the green segment represents the current time. The Recorder automatically saves up to 30 minutes of live TV. You can move backward and forward through the saved portion of a live program. (For more information, see page 66.)



The CLEAR button hides the status bar, the program guide, the channel banner, and anything else that is not part of the program.

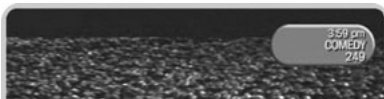


You can only rewind live TV up to 30 minutes, or to the point where you last changed the channel (whichever is less). When you change the channel, you skip ahead to the current time on the new channel and start saving on that channel. If you are behind live TV and watching something you still want to see, you should not change the channel.

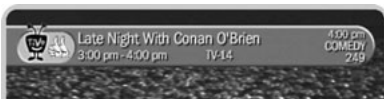


Pressing **RIGHT** arrow switches  
among channel banner styles, from

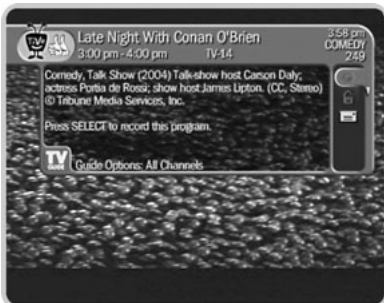
small...



...to medium



...to large.



## ▶▶ The Channel Banner

The channel banner appears at the top of the screen when you change channels, or press the INFO button or RIGHT arrow on your remote. This works when you're watching live TV, recorded programs or DVDs, or listening to a CD. The banner disappears after a few seconds. You can also hide the channel banner by pressing CLEAR or LEFT arrow.

There are three versions of the channel banner in live TV: small (with the current time and channel), medium (adds the title, running time and ratings), and large (adds a program description and icons). Press RIGHT arrow to switch among them. In recorded programs, only the medium and large versions are available. When playing DVDs and CDs, the banner has different information and options. See "Playing a DVD or CD" on page 73.

**Channel banner icons.** In live TV and recorded programs, the large channel banner has three selectable icons on the right side. To use an icon, use the UP/DOWN arrows to highlight it, then press SELECT. (See the inside back cover for a glossary of icons.)



Record a program (or stop a current recording). If a recording is in progress, the icon appears bright.



Go to Parental Controls.

If Parental Controls are off, the lock appears unlocked and dim.

If they are on, it appears locked and bright (pictured here).

If they have been turned off temporarily, it appears unlocked and bright.



Read Messages. If the symbol is bright, you have new messages from the TiVo® service.

## ►► Watching Live TV

When you're watching a program as it's broadcast, you're watching live TV. To go to live TV at any time, press the LIVE TV/GUIDE button on your remote control. You can also select Watch Live TV from TiVo Central®. If you've used the pause, rewind, slow, or instant replay features and are "behind" live TV, press ADVANCE to catch up.

### ► Changing Channels

There are several ways to change channels:

- **Use the Guide.** Tired of channel surfing? Choose something to watch with the program guide. To see the guide, press the LIVE TV/GUIDE button. Then use the arrow buttons to highlight a program. To change the channel, press SELECT.
- **Use the Number Pad.** To go to a specific channel, use the numbers on your remote control, then press ENTER. (If you don't press ENTER, the channel changes automatically after a few seconds.) To clear the number before the channel changes, press CLEAR.
- **Use ENTER.** To jump back to the previous channel, press ENTER.
- **Use CHAN UP/DOWN.** Of course, you can also still use the CHAN UP/DOWN button on your remote control. (CHAN UP/DOWN skips channels that are not on the channel list selected in Guide Options. For more information on channel lists, see page 86.)

### ► Choosing a Guide Style

You can choose between two guide styles that display your channels and program information in different ways. Press the LIVE TV/GUIDE button to display the guide, then ENTER to see the Guide Options. Highlight "Style" to see the available options.



**You can use your Recorder's remote to control the power, volume, mute, and TV input settings on your TV. For information on setting this up, see "Remote Control & Recorder Front" on page 96.**



**TiVo Live Guide:** While the highlight

is on the left side, you can press the

**FORWARD** and **BACK** buttons to change

the time in half-hour increments.

While the highlight is on the right side,

you can press the **FORWARD** and **BACK**

buttons to change the selected channel.

Use **CHAN UP/DOWN** to page through the

program listings.



**Grid Guide:** Use the **FORWARD** and

**BACK** buttons to change the time in

90-minute increments.

Use **CHAN UP/DOWN** to page through the

program listings.

## TiVo Live Guide

Title, date, time the  
program airs, and rating

Day and time

Guide options (Press ENTER to set)



Program description

Selected channel

Channel list and category  
filter currently in use

Programs during  
this time period

Upcoming programs on  
the selected channel

## Grid Guide

Title, date, time the  
program airs, and rating

Channel number and channel  
call letters

Guide options (Press ENTER to set)



Program description

Time slots

Program listings

Channel list and category  
filter currently in use

## ▶▶ Watching Programs from Now Playing

All the programs saved on your Recorder are listed in Now Playing (no more searching through unlabeled videotapes!). To go to Now Playing, press the TiVo button twice.

As soon as a recording starts, the program's title appears in Now Playing. You can watch any program in Now Playing, even one that is still recording. Just highlight it and press PLAY. If you have watched part of the program already, it resumes from the point you stopped watching. When a program ends, you have the option to delete it. If you don't delete it, the program is available to watch again from the beginning in Now Playing.

Highlight a program title and press SELECT to see the Program Information screen, which offers these options:

- **Play** or **Resume playing**.
- **Keep until...** See page 72 for details.
- **Delete Now** or **Stop Recording** (if recording is in progress)
- **Save to DVD or VCR**. See page 35 for Save to DVD. See page 82 for Save to VCR.

### ▶ Sorting and Grouping Programs

When you are in Now Playing, press ENTER on your TiVo remote to see Now Playing Options. You can also Press 1 on the remote to change the sort order of Now Playing programs; or press 2 to turn groups on or off.

**Sorting Programs.** Choose how you want the programs in Now Playing to be listed:

- **Alphabetically.** Programs are listed alphabetically by title (from A to Z).
- **By date recorded.** Programs are listed by the date they were recorded, with the most recent at the top and the oldest at the bottom.



A colored icon to the left of each title in Now Playing tells you how long the recording will be saved. See the **Glossary of Icons** on the inside back cover for details.



On a Program Information screen, press INFO to see the Program Details, which often has more about the program, such as actors, writers, producers, etc.





A note at the bottom of Now Playing tells you which sorting option you are using and whether groups are on.



When you set up recordings, you can also specify how long you want to keep them by setting the “Keep Until...” Recording Option. See page 72.

**Grouping Programs.** The Groups option lets you group like programs together to “tidy up” the screen. When you turn on Groups, a folder appears in Now Playing for:

- Each television series with more than one recorded episode;
- Each auto-recording WishList™ search with a recorded program;
- TiVo Suggestions (if you have auto-recording of TiVo Suggestions turned on).

A program may fit in any or all of these categories, so it may appear in more than one group, even though only one copy of the program is actually recorded. For example, say you have an auto-recording WishList search for an actor who also appears in a series, and you have a Season Pass™ for that series. Each episode of the series that records will appear in two folders—one for the WishList and one for the Season Pass. If you delete the program from one folder, it also disappears from the other.

A number in parentheses to the right of each folder shows how many programs it contains. If you delete a program from one folder, it will disappear from all folders.

### ► **Keep Until...**

By default, programs you record are saved until space is needed for new recordings you request (this usually means for about two days). The oldest ones may be deleted to make room for new recordings you’ve scheduled. However, you always have the option to keep a program for as long as you want.

To change how long a program will be saved, highlight it and press SELECT. The Program Information screen appears. Select “Keep Until...” On the next screen you can choose “Keep until I delete” or use the arrow buttons to highlight and change the date displayed. When you are done, press SELECT.



## ►► Playing a DVD or CD

You must complete Guided Setup before you can play CDs, and play or record DVDs. For instructions, see “Completing Guided Setup” on page 23.

If you finished “Tour Four: Playing a DVD or CD” on page 36, then you already know the basics of playing a DVD or CD on your Recorder. This section provides a bit more detail and also describes some advanced playback features.

### ► Inserting a Disc

To put a disc into the Recorder, press the OPEN/CLOSE (▲) button on the Recorder’s front panel to open the disc tray. Put in the disc with the label side facing up, using the disc tray guide to align it, then press OPEN/CLOSE again to close the disc tray.

Press PLAY (▶) to play the disc.

### ► The DVD Screen

After you insert a disc, you can simply highlight the DVD option on TiVo Central® and press PLAY to play the disc. For more options, go to the DVD screen. To view the DVD screen, highlight DVD on TiVo Central and press SELECT, or press the DVD button on the remote. The DVD screen may give options such as Resume Playing, if you have already been watching the DVD, or Go To options.

### ► Front Panel Display

While playing a DVD, the Recorder’s front panel displays the title, chapter, and time elapsed in the current title. While playing MP3 files on CD, or while playing an audio CD, the front panel displays the number and elapsed time of the current track.





If you have turned on Parental Controls for DVDs, you may need to enter a password to watch some DVDs. (See page 89 for details.)



### ► **The DVD Menu Screen**

If a DVD includes its own menu screen, you see this screen when you first play the DVD. To open or return to the DVD menu screen, press MENU or TOP MENU while the DVD is playing. (This may vary depending on how the DVD was created.)

**To navigate a menu screen.** Although individual DVD titles may differ, when a menu screen is displayed, use the UP/DOWN arrows to move around the options on the screen and use SELECT on the remote control to select options. Some DVDs also allow you to use the number buttons on the remote to select an option on a menu screen.

### ► **DVD Information and Playback Settings**

**DVD Banner.** Press the INFO button while a video DVD is playing to show the DVD banner. You can hide the banner by pressing CLEAR or LEFT arrow. The DVD banner shows the time, the DVD title number and chapter number, and how far you are into the title and chapter. On the right side of the banner are selectable icons that let you change DVD settings. Use the UP and DOWN arrows to highlight an icon, then press SELECT to change one of the following settings:



**Go To.** Select to go to a specific title, chapter, or time. (See page 75.)



**Repeat Setting.** Select to choose a different repeat setting for the DVD. You can choose to repeat an individual chapter or a whole title.



**Camera Angle.** Selectable if you are watching a DVD with multiple camera angles. Select to change the camera angle.



**Audio Track and Subtitle.** Select to change audio track or subtitle language.



**Video Format.** Displays the DVD's format. The Recorder automatically detects the video format used on a particular DVD. If the picture looks jagged, select this icon to change the method used to detect the DVD's format.

## ► **Control Buttons**

The remote's buttons control DVDs and CDs much the same way they control live TV and recorded programs. Some exceptions are listed below. For more on using the remote, see page 66.



**SKIP FORWARD:** Press SKIP FORWARD (the CHAN/PAGE UP button) to go to the beginning of the next chapter on a DVD or the next track on a CD.

**SKIP BACK:** Press SKIP BACK (the CHAN/PAGE DOWN button) once to go to the beginning of the current chapter on a DVD or track on a CD, press it again to go to the previous chapter or track.

**Buttons that are temporarily disabled.** Some control buttons may be disabled during portions of DVD or CD. For example, control buttons are often disabled during the opening titles of a DVD. If you press a control button while it is disabled, a red circle with a slash (⊘) appears on screen.

## ► **Searching for a Title, Chapter, Track, or Location on a Disc**

CDs generally have multiple music tracks and DVDs are generally divided into one or more titles. A DVD's titles may be further subdivided into chapters. Your Recorder offers different ways of accessing the information on a DVD or CD. You can

- Search for titles or chapters on a DVD-Video.
- Search for tracks on a CD.
- Select the point in time to start playback.


### **Searching Via Remote Control.**



If the Recorder is playing an MP3 music file that is larger than 10 MB and that was recorded with a variable bit rate (VBR), control buttons such as BACK, FORWARD, and INSTANT REPLAY will not work. A special transparent version of the status bar (with no green segment) is also used for such MP3 files. Most MP3 recordings of popular music will not be this large.

- **DVD.** Press the number buttons while the disc is stopped and the Recorder goes to that title. Press the number buttons while the disc is playing and the Recorder goes to that chapter of the current title.
- **CD.** Press the number buttons while playing a disc and the Recorder goes to that track. This does not work if “shuffle” is on. (See page 77.)

► **Changing the DVD Camera Angle**

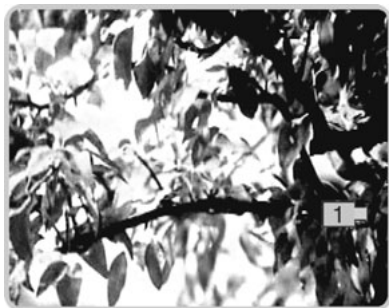
Some DVDs feature scenes shot from two or more angles. When you play a scene recorded from multiple camera angles, an angle icon (  ) appears on the screen and in the DVD Banner. The number in the icon tells you which of the available angles you are currently using.

**To change the camera angle:**

- Press the ANGLE button while a scene with multiple angles is playing, or
- Press the INFO button to view the DVD banner. Use the DOWN arrow to highlight the angle icon, then press SELECT to change the angle.

**To turn the angle indicator on or off:**

Press the TiVo button to go to TiVo Central. Select Messages & Setup, then Settings, then DVD, then “Angle Indicator.” Select “On” or “Off.”



## ► Audio CD Information and Playback Settings

The Recorder can play audio CDs as well as MP3 and WMA music files. It can also read music playlists that are in the most common format, M3U.

**Browsing a Music Disc.** Inserting a CD makes a “Play music” option available on the Recorder’s DVD menu. Highlight “Play music” and press SELECT to browse the disc’s contents. Press ENTER while browsing to change the order in which the contents display.

**Finding Information for Music.** Press INFO while music is playing to see the music banner, which shows time and track information for the current disc. It disappears automatically after a few moment.

The Recorder also shows a blue song info banner in the center of a black screen while music is playing. For audio CDs, the song info banner shows the current track number and the total number of tracks. If the files on a disc include tags with the song title, artist and album, the banner shows that information.

If you do not press a button on the remote or the front panel, the song info banner will change positions a few times every minute. Pressing CLEAR hides the song info banner and the music banner.

**Changing the Play Order of Music.** Press INFO to see the music banner, then press ENTER to see Music Play Options. Use the RIGHT and LEFT arrows to change them.

- **Shuffle.** (On, Off) When Shuffle is on, music tracks play in random order. When it is off (the default), they play in the order they are arranged on the CD or in the current playlist. Using SKIP FORWARD (▶▶) and SKIP BACK (◀◀) while Shuffle is on skips to the next or previous randomly selected track.
- **Repeat.** (One, All, None) Set Repeat to “One” to repeat an individual track, or to “All” to repeat the whole CD. If Repeat is set to None, the full disc plays once, then stops.



The Recorder does not produce  
TiVo sound effects when playing an  
audio CD.





### ► **Playing a Photo CD**


Your HUMAX DVD Recorder lets you view digital photos in JPEG format from a CD.

**Browsing a Photo Disc.** When you insert a photo CD, highlight “View photos” on the DVD screen and press SELECT to browse the contents of the disc. Photos and folders are displayed in a grid. Press ENTER while browsing to see the Photo Browsing Options:

- **Sort.** This option specifies how the photos and folders are sorted in the grid display. You can choose to sort the photos alphabetically, by date taken, or by date modified.
- **Arrange by type.** When this option is On, the Recorder displays all the folders at the top of the list, and the photos beneath them. When this option is Off, the folders and photos are sorted together. When you play a slide show, photos appear in the order they are arranged in the grid.

**Playing a slide show.** When you insert a photo CD, there are a number of ways to start a slide show, beginning with the first photo in the first folder on the disc:

- From TiVo Central, highlight the “CD: Disc inserted” option and press PLAY.
- On the DVD screen, highlight “View photos” and press PLAY.
- From the Photos grid, highlight a folder or photo and press PLAY.


You can use many of the remote’s control buttons (PAUSE, PLAY, FORWARD, BACK) during a slide show. You can even use the INSTANT REPLAY button (  ) to jump back one photo.

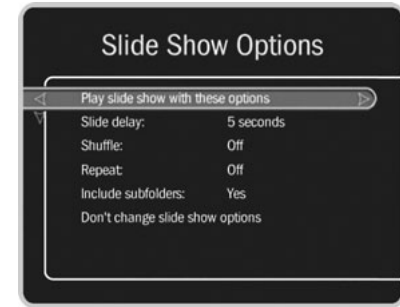
To view photos at your own pace, highlight a single photo inside a folder and press PLAY to display it. It will stay on the screen until you press FORWARD to see the next photo in the folder. Press BACK to see the previous photo.

**Slide Show Options.** Highlight any photo and press SELECT to view details about that photo. Highlight “Play slide show,” then “Options,” and press SELECT.

- **Slide delay.** This option sets the time each photo is displayed before going to the next.
- **Shuffle.** This option displays the photos in the selected folder in random order.
- **Repeat.** This option repeats the slide show after the last photo is displayed.
- **Include subfolders.** Set this option to Yes, and the slide show will include photos in folders within the current folder. Set this option to No and the slide show displays only photos in the current folder.

**Rotating a photo.** If a photo appears incorrectly oriented on your TV, you can rotate it. Highlight any photo and press SELECT to view details about that photo. On the Photo screen, select “Rotate 90° clockwise.” You may select this option more than once if the photo needs additional rotation.

When viewing a single photo, you can also use the INSTANT REPLAY button (  ) to quickly rotate a photo 90° counter-clockwise.





Some discs recorded using a different DVD recorder, CD recorder, or personal computer may not be playable in this Recorder even though they were made with software that is compatible with the Recorder. Some possible reasons for this include:

- the type of disc used
- damage, dirt or condensation on either the disc or in the Recorder's disc drive
- other reasons related to specific formats; see the notes about individual formats in this section



DVD-Video



DVD-R



DVD-RW



Audio CD



CD-R



CD-RW

The Recorder can play discs created by products that bear any of these logos.

## ►► Disc Compatibility

The Recorder can play standard DVDs, audio CDs, and MP3 music CDs. This section describes the Recorder's compatibility with different kinds of discs and files.

### ► Playback Disc Compatibility

**Size:** The Recorder can playback 8 cm. (with the use of an adapter) and 12 cm. discs.

**Format.** This Recorder was designed and engineered to playback discs created by products bearing one or more of the logos shown at the left.

**CD-R/RW.** The Recorder will play CD-R and CD-RW discs recorded in CD Audio format or recorded as CD-ROMs containing MP3 or WMA files, or digital photo files.

**DVD-R/RW.** The Recorder will play DVD-R/RW discs that use DVD-Video format (Video Mode), and DVD-RW discs that use the Video Recording (VR) format.

**PC-Created Discs.** If you record a disc on a personal computer, even if it is in one of the compatible formats listed above, there is a small chance that settings of the software used to create the disk might prevent the Recorder from playing it. If this happens, check with the publisher of the software used to create the disc for more information.

The Recorder might not play discs with very complex directory structures (for example, large numbers of folders within folders), or with very large numbers of music playlists. While the specific number of playlists and the level of directory complexity required to make a disc unplayable depends on many factors, this should not be an issue for most discs created on a PC.



**DVD Regions.** DVDs and DVD players are manufactured for different regions of the world and are marked with corresponding “region codes.” To play a DVD, the DVD and the DVD player must have compatible region codes. Discs marked with the region code ALL will play in any DVD player.

A DVD’s case should be marked with a logo that indicates the region(s) in which the disc is playable. This Recorder has a region code of “1,” which you can find on its back panel. Discs that do not have region code 1 or region code “ALL” will not play in this Recorder.

### ► **Music and Other Audio Files**

The Recorder can play music and other audio files that are in MP3 or WMA format. It will attempt to play any file with an .MP3 or .WMA file name extension (upper or lowercase). Make sure the audio files on your discs are valid files and have one of those file name extensions. A file that is not an MP3 (or WMA) but has an MP3 (or WMA) file name extension may cause noise or unexpected results when you try to play it. Other kinds of content may cause a disc not to play, or to create noise, or distort the output.

The device used to create discs with MP3 or WMA files on them must be ISO 9660 Level 1 or 2 compliant, and the CDs must be created using physical format Mode1, or Mode2 XA Form1. The Recorder is compatible with both Romeo and Joliet file systems.

**Bit Rate.** The Recorder is designed to play MP3 files or WMA encoded at any bit rate. Audio encoded at 128Kbps should sound close to regular CD quality. The quality of the sound may become noticeably worse at lower bit rates.



This Recorder can play DVDs marked with the region code “1” or “ALL.”



The “file name extension” is the last four characters of a file name. All

MP3 files should end with the file name extension “.MP3”, as in “ASong.MP3”.

Windows usually hides file name extensions; to make them visible, see the Help utility for your Windows operating system.



## ►► Save to VCR

If you have a VCR, you can save a program from Now Playing to a videotape. Saving to a video tape happens in real time. For example, if a program is two hours long, it will take two hours to save it. You will not be able to watch live TV or recordings while saving.

Most of the buttons on your remote that control live TV work as usual during Save to VCR—you can fast forward through the boring parts! The VCR will record the video exactly as it appears, including the status bar, channel banner, and any icons on the screen.

### Using Save to VCR:

1. Connect a Composite A/V cable from the Recorder's A/V Output jacks to the A/V Input jacks your VCR. Your VCR's A/V Output should already be connected to your TV or A/V receiver (so you can watch video tapes). Make sure your TV or A/V receiver is set to display video from your VCR.
2. Set the VCR to record input from your Recorder (see your VCR's instructions for how to set its input), and insert a videotape.
3. Go to Now Playing, highlight the show you want to save, then press SELECT.
4. Select Save to DVD or VCR, then Save to VCR.
5. Select "Start saving from the beginning."
6. A title screen appears for ten seconds. When you see it, press your VCR's record button. When the program is over, press stop on your VCR.



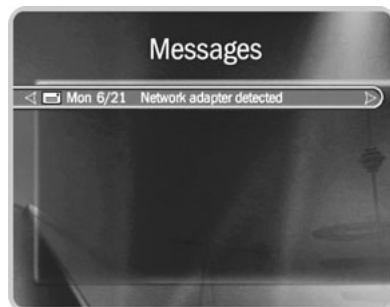
You can cancel saving by pressing the LIVE TV or TiVo button on your remote. A videotape icon appears as a warning. Press the same button again and a confirmation screen appears giving you the option to resume saving at a later time, or cancel saving to VCR. If you choose to cancel saving, be sure to press stop on your VCR as well.

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# Messages & Setup

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<b>Remote Control &amp; Recorder Front</b>	<b>96</b>
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<b>System Information</b>	<b>107</b>
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<b>Restart or Reset System</b>	<b>109</b>
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## ►► Messages

Select Messages to read any messages from the TiVo service or internal alerts from your Recorder. When you receive a new message, TiVo Central® will show the option Read New Messages & Setup.

### To read the messages:

1. Go to TiVo Central, then select Read New Messages & Setup.
2. Select Read New Messages. A list of all of your messages appears. Messages you have not yet read are marked with an envelope icon: 
3. Use the UP/DOWN arrows to highlight a message, then press SELECT to read it. CHAN UP/DOWN lets you page through a message if it doesn't fit on the screen.

## ►► Settings

With the options in Settings, you can make the Recorder work more to your liking. Use these screens to set your preferences for recording quality, Parental Controls, and more.

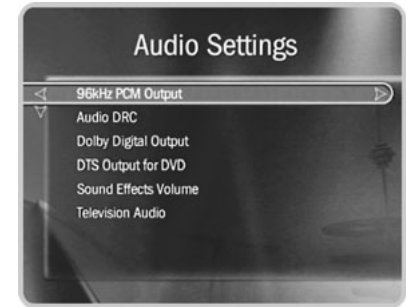
### ► **Audio Settings**

Your Recorder can send an analog or digital audio signal to your TV or A/V receiver. To enjoy multichannel surround sound, you will need to connect the Recorder to your A/V receiver using an Optical Digital Audio cable (not supplied). You should choose the audio settings below to match the capabilities of your A/V receiver.

**96kHz PCM Output.** PCM (Pulse Code Modulation) is the most common system of encoding digital audio. Sound can be turned into digital audio data at different sampling rates; the higher the rate, the better the quality. If your amplifier/receiver is compatible with 96kHz sampling rate audio, then choose “96kHz.” Otherwise, leave it set to “96kHz to 48kHz” (the default). PCM soundtracks are mono or stereo only.

**Audio DRC.** When watching Dolby Digital DVDs at low volume, it’s easy to lose low level sounds completely, including some of the dialog. Turning on Audio DRC (Dynamic Range Control) can help by making quiet sounds louder and loud sounds quieter. Audio DRC is not effective if Dolby Digital Output is set to “Dolby Digital” (see below). In that case, you must use your amplifier/receiver to adjust the dynamic range.

**Dolby Digital Output.** Dolby Digital audio soundtracks can be mono, stereo or contain up to 5.1 channels (surround sound). If your Recorder is connected to an A/V receiver that has a built-in Dolby Digital decoder, choose “Dolby Digital” (the default). Otherwise, choose “Dolby Digital to PCM.” If you choose “Dolby Digital,” you won’t hear TiVo sound effects when playing Dolby Digital content. If you choose “Dolby Digital to PCM,” you won’t have 5.1 surround sound capabilities.



**DTS Digital Output for DVD.** DTS (Digital Theater Systems) is another 5.1 channel surround format sometimes used on DVD-Video discs. If your Recorder is connected to an A/V receiver that has a built-in DTS decoder, choose “On.” Otherwise, choose “Off” (the default). If this setting is off, you will not hear audio when playing a DVD with DTS.

**Sound Effects Volume.** You can change the volume or turn off the Recorder’s sound effects (the tones played when you press buttons on the remote control). The default setting is Medium.

**Television Audio.** This option lets you select the Recorder’s default audio output option. You can choose to have the default audio in stereo or mono, or have a secondary audio program (SAP) recorded when one is available.

Secondary audio programs are generally audio broadcasts in a language other than English. If you choose to record SAP and there is a secondary audio program, it will be recorded. The SAP may be in Spanish, French, Japanese or some other language.

### ► **Channel Settings**

**Cable Lineup.** (You won’t see the “Cable Lineup” option if your program source is not cable.) Select this if you have changed your cable subscription, or if your channel lineup looks wrong in “Channels You Receive.” On the next screen you’ll be able to choose among available cable channel lineups based on your ZIP code.

**Channel Banner.** Normally, when you change channels, the channel banner is displayed for a few seconds. Use this setting to control how the channel banner is displayed. If you want the channel banner to disappear quickly, select “Clear banner quickly.”



**Channel Changing.** Use this setting to make changes to the way your Recorder changes channels on your cable or satellite box. You should do this if:

- you change the type of control cable (IR or Serial) used to change channels on your cable or satellite box (see “Choosing a Channel Changing Cable” on page 5),
- your cable or satellite box is replaced by a new make or model,
- you are having trouble with channel changing (see page 136 for troubleshooting.)

**Channel Lists.** The Recorder uses channel lists to determine which channels to display in the guide, and which channels are available for recording programs. Features such as Search by Title, Search Using a WishList, and Browse By Channel search for programs only on channels you select in the Channels You Receive list.

**Channels You Receive.** The Channels You Receive list starts with all the channels included in your service package. You can customize it to include only channels you actually subscribe to and to reflect your viewing preferences. For example, if you never watch a channel and don’t plan to set up any recordings on it, or search for programs on it, you can de-select it here.

**Favorite Channels.** The Favorite Channels list is for channels you watch frequently. Include only a few channels in this list, so that you can quickly look at what’s coming up on them using the guide. See “Customizing the Guide” on page 47.

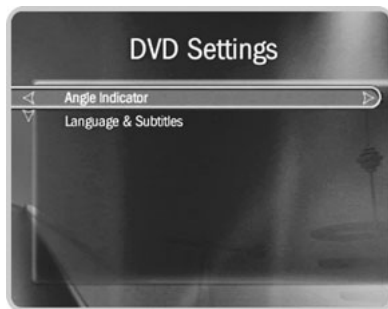
### To set up a custom channel list:

1. Select the Channels You Receive or Favorite Channels list. A check mark appears to the left of channels that are part of the selected list.
2. To remove or add a channel, highlight it and press SELECT. You can speed through the list with the CHAN UP/DOWN. To go directly to a specific channel, use the number buttons, then press ENTER. Your changes are saved automatically.




In the event that there is a change to your cable or satellite subscription package, a TiVo message will let you know what the change is. You must then use Channel Settings to ensure that the Channels You Receive list reflects the change to your lineup.





### ► **DVD Settings**

There are two selections available in DVD Settings:

**Angle Indicator.** Some DVDs feature scenes shot from two or more angles. During those scenes, an angle indicator appears on the screen (  ). If you do not want to see the angle indicator, select “Off.”

**Language & Subtitles.** You can select the preferred audio and DVD menu languages (default is English). If that language is available on a DVD, the Recorder will use it instead of any others. You can also change the subtitle settings:

- Subtitle language. (Default is English.)
- Subtitle display. On or Off. (Default is Off.)



## ► Parental Controls

Parental Controls allow you to set limits on movie and television ratings, to lock specific channels, and to prevent viewing of recorded programs that violate Parental Controls. The padlock icon shows the current state of Parental Controls:



**Off.** No password or controls set. Padlock appears unlocked and dark.



**On.** Password and controls set. Padlock appears locked and bright.



**Temporarily off.** Controls set, but password was entered to temporarily turn off. Padlock appears unlocked and bright.

While Parental Controls are on, you can watch a locked program or channel by pressing SELECT, then entering the password. This temporarily turns off Parental Controls.

**To turn on Parental Controls and define a password (🔒):** Select “Turn on Parental Controls.” Use the number buttons on the remote control to enter a four-digit password, then enter the same password again for confirmation.

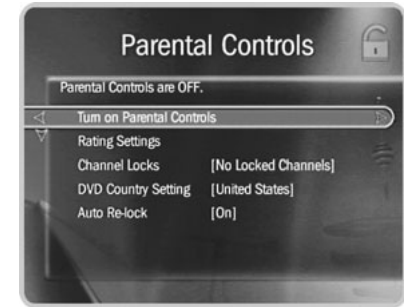
**To turn off Parental Controls (🔒):** Select “Turn off Parental Controls,” enter the password, and press SELECT. When Parental Controls are turned off, the password is deleted and anyone can view any programs or watch any channels.

**To temporarily turn off Parental Controls (🔒):** Just enter the password to watch a program or channel. Or, select “Temporarily turn off Parental Controls” on the Parental Controls screen. When Parental Controls are temporarily turned off, any program or channel can be viewed, but the password is still required to change Parental Controls settings. To re-enable Parental Controls, select “Re-enable Parental Controls.” Or, you can put the Recorder into Standby mode, then take it back out. To do this, select Messages & Setup, then Standby. Then press the TiVo or LIVE TV button.

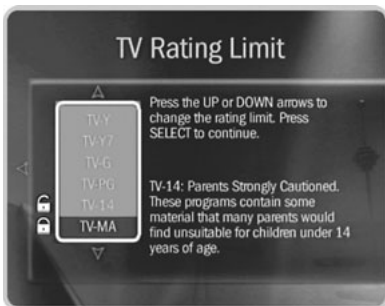
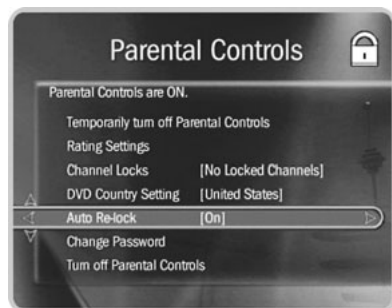


The large version of the channel banner has a shortcut to Parental

Controls; see page 68 for details.



When you turn Parental Controls off, your password is deleted. You may prefer to temporarily turn off Parental Controls, so that another person in your household does not choose a new password.



**To change the Password (🔒):** To change the password for Parental Controls, Parental Controls must be on. Select “Change Password” on the Parental Controls screen. Enter a new password, then re-enter the new password to confirm.

**Auto Re-lock Option.** When Parental Controls are temporarily turned off, they re-lock automatically after four hours if you don’t use your remote. Parental Controls won’t re-lock in the middle of a show. By default, the Auto Re-lock option is on. To turn off Auto Re-lock, go to Messages & Setup, then Settings, then Parental Controls. Press the DOWN arrow to highlight “Auto Re-lock,” then press SELECT. Enter your password, then highlight and select “Auto Re-lock off.”

**Rating Settings for TV and Movies (🔒).** Movies originally meant for release to theaters have a different rating system from programs made for TV. You can use Parental Controls to set limits for both rating systems (see page 92). You can also set limits for specific types of TV content that may be objectionable—such as sexual content or violence.

**To set Rating Limits for TV and Movies:** From Parental Controls, select “Rating Settings.” Enter the password and select the kind of limit you want to change.

The next screen contains a box listing all potential ratings. Ratings shaded in green are not locked; those in red are locked. Use the UP and DOWN arrows to move the red shading and adjust which ratings are locked. Your changes are saved automatically. When you are done, press RIGHT or LEFT arrow to return to Parental Controls.

**To set Rating Limits for Specific TV Content:** From Parental Controls, select “Rating Settings,” then enter the password and press SELECT. Select “Block by TV Content.” A list of categories appears on the next screen. Select a category (for example, V-Violence).

A box containing all the possible ratings appears. Ratings in green are not locked; ratings in red are locked. (Ratings in gray do not apply to the category. For example, a TV-Y program would not have *V-Violence* content so there is nothing to block.)

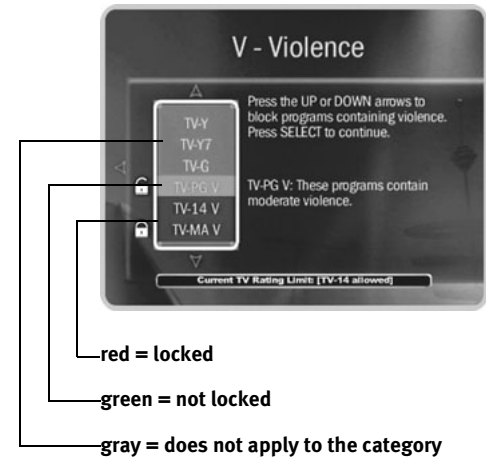
Use the UP and DOWN arrows to adjust which ratings are locked or unlocked. The display to the right of the box will change to tell you exactly what ratings level you are allowing. Your changes are saved automatically. To return to the Parental Controls screen, press SELECT or RIGHT arrow.

Broadcasters are not required to provide ratings for specific types of content. If you want to be sure to block programs that do not include ratings for specific types of content, you will have to use age-based ratings to block content. See “Rating Limits for TV and Movies,” above.

**Movies and TV Programs with No Rating Information.** If a movie has no rating information, it is treated as if it has the highest movie rating, ‘X.’ If you require a password for X-rated movies, then movies without rating information also require a password. If a television program has no rating information, it is treated as if it has the lowest TV rating, ‘TV-Y.’ A password is required to view it only if you set Parental Controls to require a password for programs rated ‘TV-Y’.

**Channel Lock for Live TV** (🔒). You can lock individual channels so that a password is required to view any program on those channels. To lock or unlock channels:

1. From the Parental Controls screen, select “Channel Lock,” and enter the password.
2. A channel list appears with a padlock icon to the left of any locked channels. Highlight a channel and press SELECT to add or remove a padlock icon. Use CHAN UP/DOWN to move through the list quickly. You can highlight a specific channel by entering its channel number with the number buttons on the remote.
3. When you are done, press RIGHT or LEFT to return to Parental Controls. Your changes are saved automatically.



► **Motion Picture Association of America ratings for movies**

**G: General Audiences.** Most parents would find this material suitable for all ages.

**PG: Parental Guidance Suggested.** Parents may find portions of this material unsuitable for younger children.

**PG-13: Parents Strongly Cautioned.** This material contains portions many parents would find unsuitable for children under 13 years of age.

**R: Restricted.** This material is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.

**NC-17: Adult Content.** This material contains intense, disturbing, or graphically portrayed themes or content that are not suitable for viewing by children under 17.

**AO: Explicit Sexual Content.** This material contains explicit sexual content and is intended to be viewed by adults ONLY.

► **Ratings for television movies and programs (including content ratings)**

**TV-Y. All children.** This program is designed to be appropriate for all children. Whether animated or live action, the themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6. This program is not expected to frighten younger children.

**TV-Y7. Directed to older children.** This program is designed for children age 7 and above. Themes and elements in this program may include mild fantasy or comedic violence, or may frighten children under the age of 7. Programs where fantasy violence that may be more intense or more combative than other programs in the TV-Y7 category are designated TV-Y7-FV.

**TV-G. General audience.** Most parents would find this program appropriate for all ages. Although this rating does not signify a program designed specifically for children, most parents may let younger children watch this program unattended. It contains little or no violence, sexual dialogue, or situations; and no strong language.

**TV-PG. Parental guidance suggested.** This program contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The theme itself may call for parental guidance and/or the program contains one or more of the following: moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

**TV-14. Parents strongly cautioned.** This program contains some material that parents would find unsuitable for children under 14 years of age. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

**TV-MA. Mature audiences only.** This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. This program contains one or more of the following: graphic violence (V), explicit sexual activity (S), or crude, indecent language (L).

► **Recording Settings**

**Recording Quality.** You can increase the available recording time on your Recorder by selecting a recording quality appropriate for the type of program you are recording. The Recorder offers four levels of recording quality; set your default on this screen. The choice you make here will be used for all recordings unless you change it, using Recording Options, when you schedule a recording (for details, see page 43). Two different recording qualities cannot be used on one recording.

The recording quality choices available are Best, High, Medium, and Basic. The factory default is High. Basic quality takes up about one-third the space of Best quality, so it gives you about three times the amount of space for programs. You may wish to experiment with different levels and then reset your default. Some quality settings are better suited for certain kinds of programs, but you should choose what looks best to you.

Recording Quality	Suggested use
Basic	News
Medium	Daytime Talk Shows, Animation
High	Dramas, Films
Best	Sports, Action Movies

The Recorder automatically uses Best Quality when displaying live TV. However, when it records a program, the Recorder uses the Video Recording Quality you specified for that program. If that quality is not Best, you may notice the difference when recording starts.



**One hour of Best Quality equals about 3 hours of Basic Quality, 2 hours of Medium Quality, and 1.5 hours of High Quality.**



If you change video sources, for example, by changing from cable to satellite service, you should repeat Guided Setup (go to Messages & Setup, then Restart or Reset System, then Repeat Guided Setup).

**TiVo Suggestions.** Use this screen to turn automatic recording of TiVo Suggestions on or off. When automatic recording is on (the default), TiVo Suggestions may be recorded onto available space. Programs you have recorded or scheduled to record will never be deleted to make room for suggestions. Also, if space is needed to save programs you have scheduled to record, suggestions are the first things to be deleted. (For more information on TiVo Suggestions, see page 38.)

### ► **Video Settings**

**Connection to Recorder.** If you change the cable you use to connect video from your cable or satellite box to the Recorder, use this screen to inform the Recorder of the change. The next screen you see depends on whether you have one or two video sources.

**Progressive Output.** This setting allows you to choose the type of video signal output by the Recorder. Interlaced scan video is the standard method of displaying a picture on your TV. All TVs are compatible with Interlaced scan, and this is the default setting.

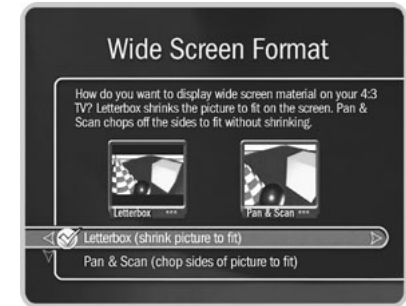
Progressive scan video is a method of displaying a more stable, flicker-free picture on your TV. If your TV is compatible with progressive scan and it is connected to your Recorder with a Component Video cable (not supplied; see page 4), choose Progressive.

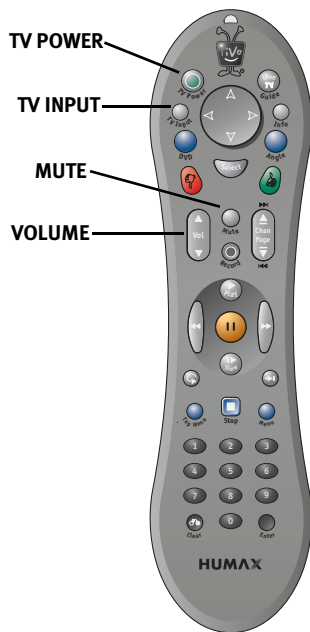
**3D Noise Reduction.** (Appears if you set your video output to Progressive.) If your TV is compatible with Progressive, you can enable, disable, or change digital video noise reduction settings. To reduce the amount of noise in the video, choose “On.”

**RF Video.** If you use a Coaxial RF cable as the video input to your Recorder, this option is available. You can use the RF Video screen to smooth the video, which will decrease the static and improve the picture on these channels. However, it will cause images on all channels carried to your Recorder on a Coaxial RF cable to lose some sharpness.

**TV Aspect Ratio.** You can select the image proportions for the type of TV you have: 16:9 (wide screen) or 4:3 (standard).

**Wide Screen Format.** If you set the TV Aspect Ratio to 4:3, use this setting to determine how you want to display wide screen content. Choose “Letterbox” to shrink the wide screen picture to fit on the TV screen with black bars at the top and bottom. Choose “Pan & Scan” to chop off the sides of the picture to fit on the screen without shrinking.





The **TV INPUT** button can control the video signal—or “input”—your TV displays. Changing the input will change the source of the video displayed on your TV. TV inputs can include video from a VCR, DVD player, DVR, or a video camera.

## ►► Remote Control & Recorder Front

To change the settings of the lights on the Recorder’s front panel, see page 101.

For information about the individual buttons on the TiVo remote control, please refer to the Remote Control Tips on the inside front cover of this guide. Before programming the remote control, you must first insert the batteries and complete Guided Setup.

The TiVo remote will already work with your Recorder. You can also program some buttons on the remote to control your TV and/or A/V receiver (your stereo system).

- **Control TV power, volume, mute, and input settings.** Complete the instructions starting on on page 97 using the first column in each of the tables (TV power, volume, and mute). Then repeat the instructions using the second column (TV input).
- **Control TV and A/V receiver power & A/V receiver volume and mute.** Complete the instructions starting on on page 97 using the first column in each of the tables. Then repeat the instructions using the third column (A/V receiver power, volume, and mute). In this case, the TV POWER button turns on/off the TV and the A/V receiver at the same time. The VOL and MUTE buttons control only the A/V receiver.
- **Control TV power and A/V receiver volume and mute.** Complete the instructions starting on on page 97 using the first column in each of the tables. Then repeat the instructions using the fourth column (A/V receiver volume and mute). The VOL and MUTE buttons control only the A/V receiver.



## ► Programming the TV POWER, VOLUME, and TV INPUT Buttons

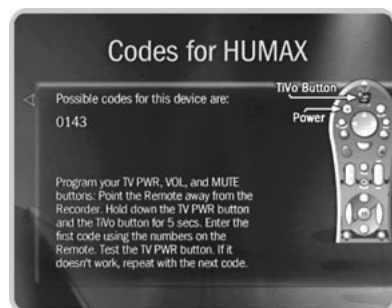
- 1. Go to the Remote Control screen.** Press the TiVo button to go to TiVo Central®. Select Messages & Setup, then Settings, then Remote Control & Recorder Front Lights. Choose which device and/or functions you want to control:

<b>To Control:</b>	TV power, volume, and mute	TV input	A/V receiver power, volume, and mute	A/V receiver volume and mute only
<b>Choose:</b>	Remote Control-TV (power, volume, mute)	Remote Control-TV (TV Input)	Remote Control-A/V Stereo System	Remote Control-A/V Stereo System

- 2. Select the brand of your device.** Using the UP/DOWN arrows, highlight the brand of the device you wish to control, then press SELECT. (If you have been using a universal TV remote control, select your TV or A/V receiver's brand, not the brand of the universal remote.) Next you'll see a screen with four-digit codes.
- 3. Prepare the remote control.** Point the remote away from your Recorder and cover the front end with your hand. Refer to the table below and determine which two buttons to press to prepare the remote. Press and hold the buttons simultaneously for about 5 seconds (until the red light at the end of the remote control lights up and stays on when you release the buttons).

<b>To Control:</b>	TV power, volume, and mute	TV input	A/V receiver power, volume, and mute	A/V receiver volume and mute only
<b>Press the:</b>	TV POWER and TiVo buttons	TV INPUT and TiVo buttons	TV POWER and TiVo buttons	MUTE and TiVo buttons





**4. Enter a code.** Use the number buttons on the remote control to enter a four-digit code (starting with the first code in the list on the screen). After you press the fourth digit of the code, the red light on the end of the remote control should flash. If it doesn't, try the next code.

**5. Test the code.** Point the remote towards the TV and test the button:

<i>To Test the:</i>	TV power, volume, and mute	TV input	A/V receiver power, volume, and mute	A/V receiver volume and mute only
<i>Press the:</i>	TV POWER button	TV INPUT button	TV POWER button	MUTE button

If pressing the button works (e.g., turns the TV or A/V receiver off, or changes the TV input), the code is correct. If it does not work, repeat steps 3 and 4 using the next code on the list. If none of the codes works, perform a code search (see below).

### ► **Performing a Code Search**

If none of the codes listed allows you to control your device, a code search may detect the correct code. Performing a code search can take up to 20 minutes.

**1. Prepare the remote control.** Point the remote away from your Recorder and cover the front end with your hand.

Refer to the table below and determine which two buttons to press to prepare the remote. Press and hold the buttons simultaneously for about 5 seconds (until the red light at the end of the remote lights up and stays lit when you release the buttons).

<i>To Control:</i>	TV power, volume, and mute	TV input	A/V receiver power, volume, and mute	A/V receiver volume and mute only
<i>Press the:</i>	TV POWER and TiVo buttons	TV INPUT and TiVo buttons	TV POWER and TiVo buttons	MUTE and TiVo buttons

- 2. Enter the search code.** Refer to the table below and use the number keys on your remote control to enter the appropriate code.

<b>To Test:</b>	TV power, volume, and mute	TV input	A/V receiver power, volume, and mute	A/V receiver volume and mute only
<b>Enter:</b>	0999	0999	1999	1999

After you press the fourth digit of the code, the red light on the end of the remote control will flash twice, then remain on.

- 3. Test the remote control.** Point the remote control at the TV or A/V receiver. Press CHAN UP to test the first code. The test is successful if the TV or A/V receiver responds (by powering off, changing input, or muting, depending on the function you are trying to program). If there is no response, wait two or three seconds, then press CHAN UP again. Continue doing this until the TV or A/V receiver responds.

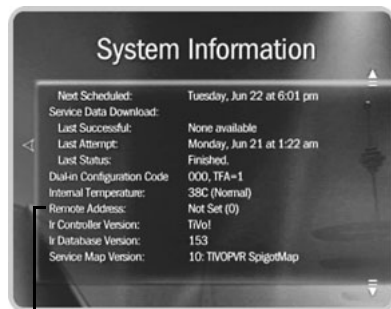
When the TV or A/V receiver does respond, press ENTER to select the current code. The red light at the end of the remote control will flash three times to indicate that the remote control is properly coded to control your device.

When the red light on the end of the remote control turns off, you have reached the end of the available codes.

Unfortunately, due to the great variety of TVs and A/V receivers, some makes and models are not compatible with your Recorder's remote control. If you reach the end of the available codes without finding a code that works with your device, you will need to use your TV or A/V receiver's remote to turn it on and off, and control the volume.



By default, all TiVo DVRs and remote controls (including your HUMAX DVD Recorder) have a Remote Address of “0” (zero). A remote control with a Remote Address of “0” will control any TiVo DVR, even one with an assigned code. A DVR or Recorder set to “0” will respond to any remote control, even one with an assigned code. This prevents you from becoming accidentally “locked out” of controlling your TiVo DVRs.



Remote Address

### ► **Managing Multiple Recorders and Remotes**

If you have more than one Recorder in your home, or if you have another model of TiVo DVR in addition to your HUMAX DVD Recorder, you can match a particular Recorder with a particular remote so that each Recorder will only respond to its own remote. You can do this by setting the Remote Address.

1. If both Recorders are in the same room, start by covering the IR sensor window on one Recorder using a cloth or thick piece of paper. This will prevent setting the Remote Address on both Recorders simultaneously.
2. Go to the System Information screen. First, press the TiVo button, then highlight and select Messages & Setup, then System Information. On the System Information screen, scroll down until you see Remote Address.
3. Hold down the PAUSE and TiVo buttons simultaneously for about five seconds (until the red light at the end of the remote control lights up and stays on when you release the buttons).
4. Use the number keys to enter any digit from 1 to 9. Press the number you have chosen several times until you see the Remote Address change on the screen.
5. Press the TiVo button to go to TiVo Central.
6. Repeat these steps using your second Recorder and remote control. Be sure to choose a different number (in Step 4) for the remote address of the second Recorder.
7. Once you complete this process, each remote will control only the Recorder to which it is assigned.

## ► **Resetting the Programmable Buttons**

If you make a mistake, or are having difficulty, you can reset the programmable buttons (TV POWER, VOLUME, MUTE, TV INPUT, and the DVR SWITCH). All the remote's buttons will return to the unprogrammed state of a new remote.

1. **Prepare the remote control.** Point the remote away from your Recorder and cover the front end with your hand.

Press and hold the TV POWER button and TiVo button simultaneously until the red light at the end of the remote control comes on, remains steady, then stays on when you release the buttons.

2. **Press THUMBS DOWN™ three times, then press ENTER.** (To cancel, press CLEAR before you press ENTER.)

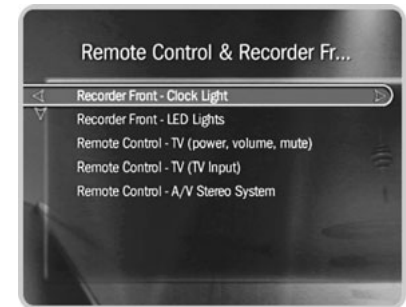
## ► **Front Panel Lights**

You can change the settings of the lights on the Recorder's front panel.

**Recorder Front - Clock Light.** You don't have to set the clock on the front of the Recorder—the TiVo service sets it for you. (No more blinking “12:00”!). This setting lets you dim or turn off the clock.

**Recorder Front - LED Lights.** The Recorder has LED (light emitting diode) lights on its front panel to indicate when it is receiving power and when it is recording a program. You can choose to turn off these lights.

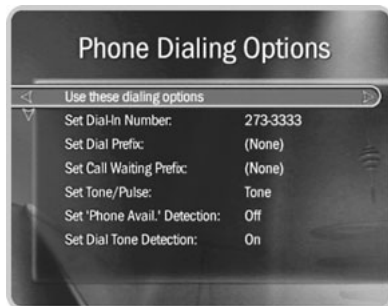
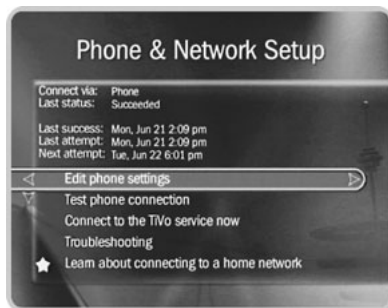
Even if you choose to turn off the front panel lights, one of the LEDs on the front panel will flash briefly when a button on the remote is pressed. This indicates that the Recorder is receiving a signal from the remote.





Your Recorder should NOT be used with a digital PBX phone system.

Doing so may permanently damage your Recorder's modem and will void your warranty. See Chapter 9 for warranty information.



## ►► Phone & Network Setup

The Recorder makes regular connections to the TiVo service to get updates to the TiVo service, program information for the program guide, Search by Title, WishList™ searches, and updates to Showcases and TiVo! Magazine. The connection usually lasts less than five minutes. You may receive service updates to your Recorder from time to time. In such cases, it may last longer, but this happens rarely (a few times a year).

A phone connection is required for Guided Setup, but after you complete Guided Setup, you'll be able to connect your Recorder to a home network and use a shared Internet connection instead of a phone line to make connections to the TiVo service.

On the Phone & Network Setup screen, you can see details, including the time of the last successful connection to the TiVo service and last connection attempt, as well as the status of the last connection.

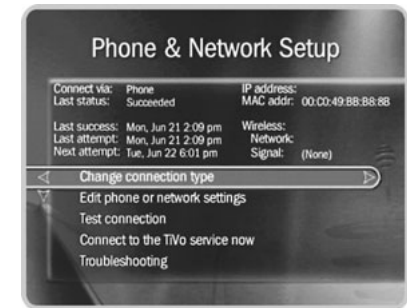
The Phone & Network Setup screen has different selections depending on whether you have connected a network adapter to your Recorder. If you haven't connected a network adapter, you will see these selections:

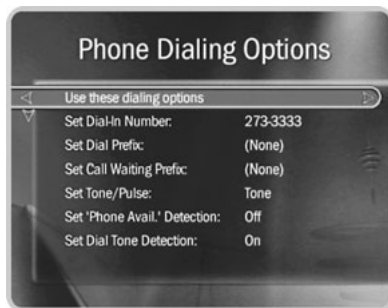
- **Edit phone settings.** This selection takes you to the Phone Dialing Options screen. Selections on this screen are explained in detail on page 104.
- **Test phone connection.** When you select this, a test connection to the TiVo service will start automatically. You may wish to use this option for troubleshooting or other unusual circumstances. Test connections usually only take a couple of minutes. When the connection has finished, press SELECT to continue.

- **Connect to the TiVo service now.** Normally, you do not need to connect to the TiVo service manually. However, for troubleshooting or other unusual circumstances, you may wish to use this option. After you start the connection, the status indicator reads “Starting Up” and will change as it goes through several stages. You can watch live TV, set up recordings, and search for programs while the connection is in progress.
- **Troubleshooting.** This selection takes you to the Troubleshooting screen, where you will find Phone Troubleshooting and Network Troubleshooting steps among other troubleshooting selections.
- **Learn about connecting to a home network.** Before you connect a network adapter to your Recorder, the Phone & Network Setup screen will display this selection with a yellow star. See Chapter 7 for more information about connecting your Recorder to a home network.

After you connect a network adapter to your Recorder, you will no longer see “Learn about connecting to a home network.” You will have two new selections available:

- **Change connection type.** This allows you to change how the Recorder connects to the TiVo service, by phone or using your home network’s shared Internet connection.
- **Edit phone or network settings.** The Phone & Network Settings screen has selections for Phone Dialing Options (see below for details), TCP/IP Settings, and Wireless Settings. See Chapter 7 for more information about TCP/IP Settings and Wireless Settings.





In some areas, local and long distance toll charges may apply.

You are responsible for any telephone charges.

### ► **Phone Dialing Options**

**Change Dialing Options.** You can change the following settings (if you make a mistake while entering a change, use the BACK button to backspace):

**Set Dial-In Number.** Use this to change the number the Recorder uses to make test calls and daily calls. To change it:

1. Select “Set Dial-In Number.” The Area Code screen appears.
2. Use the number keypad on the remote to set the area code, then press SELECT. If you change the area code, or if the Recorder has not connected in the last twenty-four hours, the Update Numbers screen appears and the Recorder calls the TiVo service to retrieve a list of local dial-in numbers. After the phone call, press SELECT. The Dial-In Number screen appears.
3. Use the UP/DOWN arrow to choose one of the listed phone numbers. The Recorder will use this number to connect to the TiVo service. Then press SELECT.  
If your area code has no access numbers, press LEFT arrow to return to the Area Code screen and try a nearby area code.
4. The Dialing Format screen appears after you have chosen a dial-in number. You should use this screen to tell the Recorder which dialing format to use. For example: should the dial-in number be preceded by your area code and should a “1” precede the area code? In some areas, even local numbers must be dialed using the area code. Press SELECT to return to the Phone Dialing Options screen.

To test your new dial-in number, select “Test Phone Connection Now.” The Test Phone Connection screen appears and a test phone call begins. When the call



completes, you should see the message “Test Succeeded!” Press SELECT to return to Phone Dialing Options.

**Set Dial Prefix.** Use this option if you normally dial a prefix before making a phone call (for example, if you need to dial “9” to get an outside line). Use the number keys on the remote control to enter the prefix. Press the PAUSE button after you have entered the prefix. This will insert a comma, which will create a two second pause after the prefix is dialed.

**Set Call Waiting Prefix.** If you have call waiting, you may choose to disable it while the Recorder is making a call, so that the Recorder’s phone call is not interrupted. If you do not disable it, the Recorder may drop its call and allow the incoming call to ring through, depending on your phone system. The Recorder will then try its call again later. The most common code that phone companies use to disable call waiting is \*70 (check with your phone company to find out how to disable call waiting in your area). Press CLEAR to enter a star (\*). Press the PAUSE button after you have entered the prefix to insert a comma, which creates a two second pause after the prefix is dialed.

**Set Tone/Pulse.** If your phone system uses pulse dialing, rather than tone dialing, you can change the setting to pulse here. (Today, most phone systems are tone.)

**Set “Phone Avail.” Detection.** When Set ‘Phone Avail.’ Detection is on, the Recorder can determine whether the phone line is in use by detecting voltage on the line. This allows it to avoid disrupting a call in progress (such as another modem call).

This setting is off by default. With ‘Phone Avail.’ Detection turned off, if you are on the phone when the Recorder tries to call, you may hear a click on the line. If you have another modem call in progress (on your computer or other device), that call may be



**With Dial Tone Detection and 'Phone Avail.' Detection both turned off, if you happen to be talking on the phone when the Recorder tries to call you will hear the modem dial and try to connect to the TiVo service.**

disrupted if the Recorder attempts to call the TiVo service. If you have a standard dial tone, and 'Phone Avail.' Detection is off, turn on Dial Tone Detection (below).

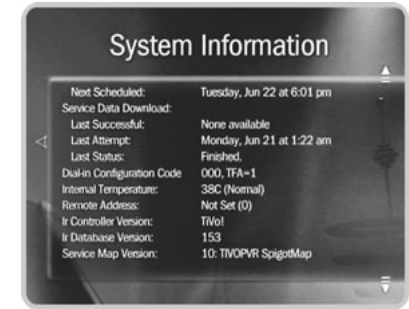
If you are experiencing "Failed, Line unavailable" errors, or if the Recorder is not making daily calls, you may have a low-voltage phone system that the Recorder cannot detect. In this case, it's best to have 'Phone Avail.' Detection off.

**Set Dial Tone Detection.** This setting is on by default. If you leave it on, the Recorder will check for a dial tone before it starts dialing. However, if you have a non-standard dial tone, or a stuttering dial tone (as some voice messaging systems have), the Recorder will be unable to detect the dial tone and will not make its call.

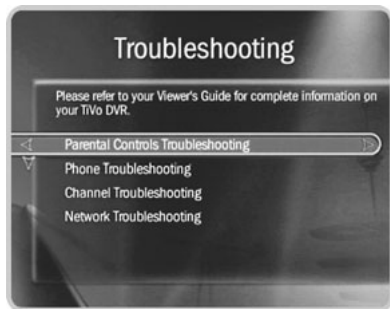
**Restore previous options.** The Recorder must make a successful test phone call before it will accept changes to Phone Dialing Options. If you want to restore your previous dialing options and continue past this screen without making a test phone call, select "Restore previous options."

## ►► System Information

The System Information screen provides general information about your Recorder, including its service number, manufacturer, model number, software version used, storage capacity, and information about recent connections to the TiVo® service. You'll need some of this information if you contact Customer Support. You can use the CHAN UP/DOWN button to see the rest of the information on the screen.



## ►► Troubleshooting



If you're having trouble, or have any questions about your Recorder, consult the troubleshooting steps available in Chapter 8 of this guide.

The Troubleshooting screens provide tips that may help you troubleshoot various problems. Use CHAN UP/DOWN to see all of the text on the screens.

**Parental Controls Troubleshooting** provides instructions for using Parental Controls.

**Phone Troubleshooting** can help if your Recorder's phone connection is unsuccessful.

**Channel Troubleshooting** provides help for changing channels on either a satellite or cable box. The tips at the top of the screen are for cable or satellite boxes that attach to the Recorder through a serial connection. Use CHAN UP/DOWN to see the second set of tips, which deal with cable or satellite boxes using IR (infrared) connections to the Recorder. You can also find tips in Chapter 8 and at [www.tivo.com/support](http://www.tivo.com/support).

**Network Troubleshooting** provides tips to help you with your Recorder's network connection. See Chapter 7 for more information.

**Transfer Troubleshooting** helps if you are having trouble with Multi-Room Viewing. For more information about Multi-Room Viewing, refer to the "Home Media Features Guide" available at [www.tivo.com/guides](http://www.tivo.com/guides).

## ►► Restart or Reset System

You may need to restart the Recorder as a routine troubleshooting step. Other options on this screen erase information or restore original factory settings. Selecting any of these displays a warning. To continue, press THUMBS DOWN™ three times, then ENTER.

**Restart the Recorder.** Shuts down the Recorder and starts it up again. It will not affect recorded programs, Season Pass™ recordings, WishList™ searches, or TiVo Suggestions.

**Repeat Guided Setup.** You will have to repeat Guided Setup if you move or if you change your cable or satellite provider. Repeating Guided Setup will reset the Channels You Receive and Favorites channel lists to the factory settings. It will not affect recorded programs, Season Pass recordings, WishList searches, or TiVo Suggestions.

**Clear Thumb Ratings and Suggestions.** Removes all Thumbs Up™ and Thumbs Down™ ratings and deletes the list of TiVo Suggestions. It does not delete TiVo Suggestions that have been recorded and are in the Now Playing List.

**Clear program information & To Do List.** Clears all program information, cancels all Season Pass recordings and everything in the To Do List, and removes all Thumbs Up and Thumbs Down ratings. It does not delete programs in the Now Playing List. The Recorder acquires new program information during the next connection to the TiVo service. Completing this process may take over an hour.

**Clear & delete everything.** Clears all Season Pass recordings, WishList searches, Thumbs Up and Thumbs Down ratings, TiVo Suggestions, Now Playing List recordings, program information, the To Do List and setup information, including the Channels You Receive and Favorite Channels lists. It also clears the current password and resets Parental Controls to the factory specified default. Completing this process may take over an hour.





**If you used only RF coaxial cables to connect your program source (antenna or cable) to the Recorder, and also to connect the Recorder to your TV, Standby mode allows RF signal pass-through. This means you can watch channels on your RF program source using your TV's tuner instead of the Recorder's tuner—and that means you can watch one channel while recording another! Keep in mind, you won't have Recorder functionality in live TV (pause, rewind, etc.) while the Recorder is in Standby.**

## ►► Standby

You can put your Recorder in Standby mode by selecting Standby in Messages & Setup. To return to normal mode from Standby, press either the TiVo button the or LIVE TV button. (On some remotes, there is a POWER button that puts the Recorder in Standby mode and takes it back out.)

### In Standby mode:

- Your TV shows a black screen and the lights on the front of the Recorder go out.
- Programs that are being recorded or are scheduled to record will still be recorded. (If a program is being recorded, the red light will turn on.)
- The Recorder will still connect to the TiVo® service. (If the Recorder is connecting, the yellow light will turn on.)
- If you temporarily turned off Parental Controls, Standby mode re-enables them. (See page 89 for more on Parental Controls.)
- The Recorder will continue to save a portion of live TV—up to 30 minutes of programming.
- If live TV was paused when Standby was selected, the Recorder will remain paused for up to 30 minutes.
- If the TiVo Live Guide was set to display a category filter, filtering will be turned off.

# Connecting to a Home Network for Home Media Features

<b>Introduction to Home Media Features</b>	<b>112</b>
<b>Home Networks</b>	<b>116</b>
<b>Connecting to a Home Network Using a Wireless Adapter</b>	<b>117</b>
<b>Connecting to a Home Network Using Wired (Ethernet)</b>	<b>119</b>
<b>Completing the Recorder's Network Settings</b>	<b>121</b>

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If you do not already have a home network and you want to learn how to create one, Linksys — a leading manufacturer of wireless and always-on Internet connection networking equipment — provides valuable information on its web site at: [www.linksys.com/edu/](http://www.linksys.com/edu/).

Other online resources also describe the steps and types of equipment used to set up a home network. You can try going to a popular search engine like Google ([www.google.com](http://www.google.com)) or Yahoo ([www.yahoo.com](http://www.yahoo.com)) and typing the phrase, “setting up a home network,” in the search field. You will obtain a number of search results (links) that supply guidance to help you set up your home network.

## ►► Introduction to Home Media Features

This chapter shows you how to connect your HUMAX DVD Recorder to a home network. Doing so gives you brand new ways to use your Recorder as a digital home entertainment center. Connect it to a home network and enjoy:

- **Multi-Room Viewing** – Record programs in the living room and watch them in the bedroom—or vice versa. See page 113.

If you don’t have a home network, you can connect two Series2™ DVRs to each other for Multi-Room Viewing. (Your HUMAX DVD Recorder is also a Series2 DVR.) This setup is described in the Home Media Features guide, available online at [www.tivo.com/guides](http://www.tivo.com/guides).

- **Digital Music Player** – Use the home entertainment center in your living room to listen to the digital MP3 music collection stored on your computer. See page 114.
- **Digital Photo Viewer** – View slideshows of digital photos stored on your computer without huddling around a small computer monitor. See page 114.

These Home Media Features are included with the TiVo® service. Connecting your Recorder to a home network allows you to enjoy them. For more about using these features, download the Home Media Features Guide at [www.tivo.com/guides](http://www.tivo.com/guides).

**Connect to the TiVo service via broadband.** If your home network includes an always-on Internet connection (for example, DSL or a cable modem), your Recorder can use that connection, instead of a phone line, for regular connections to the TiVo service. (The Recorder will still need a standard phone line connection for Guided Setup.)

In addition, with an always-on Internet connection, you can use Online Scheduling (see page 53) for any program airing more than an hour after you request it. (If your Recorder is using a phone line, processing an Online Scheduling request can take up to 36 hours.)



## ►► Multi-Room Viewing

Multi-Room Viewing lets you transfer programs from one TiVo® DVR in your home to another. To use Multi-Room Viewing, you need at least two Series2™ DVRs, and:

- The DVRs must be on the same TiVo service account. (The TiVo service subscription for each DVR must be owned by the same person.)
- The DVRs must be connected to the same home network. For more information, see “Home Networks” on page 116.
- Each DVR must have active TiVo service, and Multi-Room Viewing enabled at [www.tivo.com/manage](http://www.tivo.com/manage).

After you have connected the DVRs to your home network, the Now Playing list of each DVR will show the names of the others.

### ► How to Transfer a Program

Using Multi-Room Viewing couldn't be easier. To transfer a program from one DVR within your home to another DVR:

1. In Now Playing on the receiving DVR, select the DVR containing the program you want to transfer. This will be the sending DVR.
2. Press SELECT on the name of a program you want to transfer. (You cannot transfer a program while it is recording on the sending DVR.) Then select “Watch on this TV.”
3. On the Getting Program screen, you can choose to watch the program as it is transferring, or continue browsing Now Playing on the sending DVR. If you watch the program as it is transferring, you might experience intermittent delays in the transfer. You may want to complete the transfer before viewing the program.



Your HUMAX DVD Recorder is also a  
TiVo Series2 DVR.



If you are connecting two Recorders  
to a home network to use Multi-  
Room Viewing, using a wired (Ethernet)  
connection for one of them may speed up  
program transfers.

## ►► Digital Music & Photos

The Digital Music Player and Digital Photo Viewer let you use your Recorder to play MP3 music files and playlists, and view photos that are stored on a computer. Now you can enjoy your digital music collection on the best sound system in the house, or watch slideshows of digital photos in the comfort of your living room.

To use the Digital Music Player or Digital Photo Viewer, you need:

- A Recorder with a subscription to the TiVo service.
- A computer connected to the Recorder via a home network (see page 116).
- The TiVo Desktop application that makes music and photos on the computer available to a Recorder.

### ► **TiVo Desktop**

The TiVo Desktop application is a small, easy-to-use program for your computer that you can download from [www.tivo.com/desktop](http://www.tivo.com/desktop). TiVo Desktop is available for the following operating systems:

- Windows 98, ME, 2000, XP
- Macintosh OS X v10.2 or later

**Music File Types.** TiVo Desktop plays music in the MP3 format, and supports playlists in the following formats used by common music players: M3U, PLS, ASX, and B4S. On a Mac, TiVo Desktop works with music organized by iTunes 3.0 or later.


**Photo File Types.** TiVo Desktop for Windows works with digital photos in these formats: BMP, DIB, GIF, JPG, PNG. TiVo Desktop for Mac works with digital photos organized by iPhoto 2.0 in these formats: JPG, GIF, BMP, TIFF, and PNG.

## ► **Playing Your Music and Viewing Your Photos**

Using the Digital Music Player and Digital Photo Viewer is easy. You can find Music & Photos on TiVo Central®.

**Listening to music on the Recorder.** On your computer, use the TiVo Desktop application to “publish” music that you want to access through your Recorder. (Publishing is a process that makes digital music and photos available to your Recorder. It is usually as simple as selecting music and clicking a Publish button.)

On your Recorder, go to TiVo Central and select Music & Photos, then select the music option for your computer.

You should see a list of music you published with TiVo Desktop. Select the music you want to listen to and press the PLAY (  ) button. In a few seconds, the music plays.

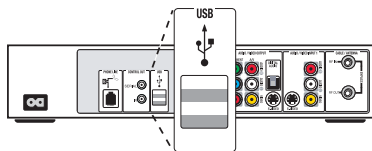
**Viewing photos on the Recorder.** On your computer, use the TiVo Desktop application to “publish” photos that you want to access through your Recorder. (Publishing is a process that makes digital music and photos available to your Recorder. It is usually as simple as selecting photos and clicking a Publish button.)

On your Recorder, go to TiVo Central and select Music & Photos, then select the photos option for your computer.

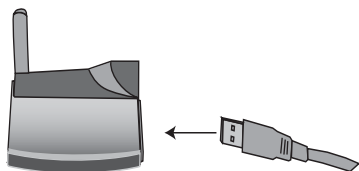
You should see a list of the photos you published with TiVo Desktop. Select the photos you want to view and press the PLAY (  ) button. In a few seconds, the photos start to appear on your television screen.



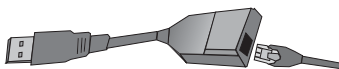
## ►► Home Networks



The USB ports on the back of your Recorder.



A USB Wireless network adapter  
(yours may look different)



An Ethernet USB network adapter  
(yours may look different)



TiVo has recommendations for compatible models of wireless and wired (Ethernet) network adapters. Be sure to check [www.tivo.com/adapters](http://www.tivo.com/adapters) for the latest information.

When we refer to a “home network,” we mean two or more devices (probably computers), connected to a router.

### ► USB Ports, Wireless and Wired Network Adapters

On the back of your DVR, you will see two *USB ports* that can be used to connect either a wireless or a wired (Ethernet) USB network adapter. Although you can use either of these ports, only one network adapter can be connected at a time.

*USB network adapters* let a Recorder use a USB port to communicate with other networked devices. Whether you choose wireless or wired (Ethernet), you will need a network adapter for each Recorder you wish to connect.

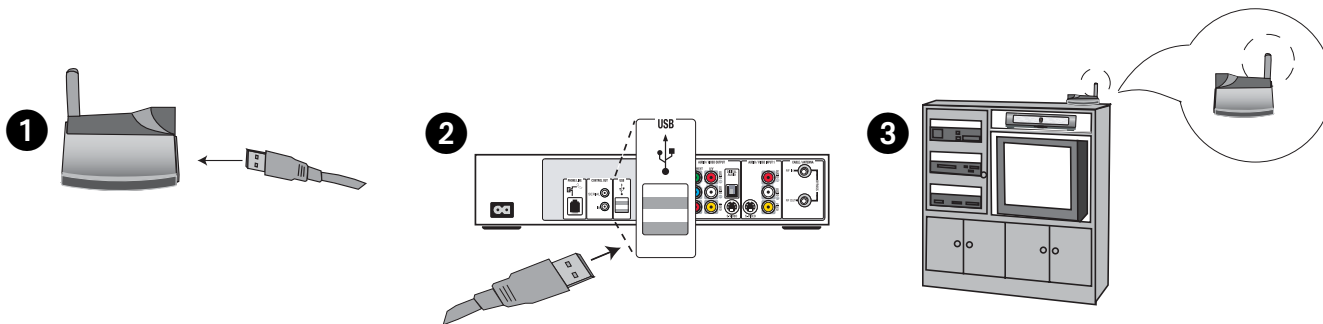
**Choosing Wireless or Wired (Ethernet).** You can connect your Recorder to your home network using either a wireless or wired (Ethernet) connection. Here are some notes to help you choose which approach you want to use.

- **Wired (Ethernet).** Ethernet connections are generally faster, less expensive, more reliable and less susceptible to interference than wireless networks. To connect a Recorder to a wired (Ethernet) network, see “Connecting to a Home Network Using Wired (Ethernet)” on page 119
- **Wireless.** Connecting your Recorder wirelessly may be more convenient because you do not have to run a cable from your Recorder to another device. However, wireless networks are typically more expensive and slower than Ethernet networks, and may be subject to interference from appliances such as microwaves and cordless phones. To connect a Recorder to a home network wirelessly, see “Connecting to a Home Network Using a Wireless Adapter” on page 117.

## ► Connecting to a Home Network Using a Wireless Adapter

Use this example if you have a home network that includes a wireless access point (WAP) or wireless router, or for each Recorder in a wireless peer-to-peer network. On most home networks, the wireless access point is part of an integrated hub/router and home gateway. You can leave your Recorder plugged in while you connect a network adapter.

To connect a wireless network adapter to your Recorder:



1. **Connect to the adapter.** If it is not already attached, connect one end of the USB cable that came with your wireless network adapter to the port located on the back of the adapter.
2. **Connect to the Recorder.** Connect the other end of the USB cable to the USB port on the Recorder. The power light on the wireless adapter may come on before the cable is completely inserted into the USB slot. Make sure you push the cable all the way into the USB slot.



Do not use the CDs that are included with your network adapters to set up your Recorders. These CDs are intended to load drivers and network adapter software on your personal computer.



The cable may already be attached to your wireless network adapter.



3. **Position the adapter.** Position the adapter in an open location so that the signal is easily transmitted. For example, you might place the adapter on top of your entertainment center. Do not place the wireless adapter near the Recorder's power supply or on a power strip or surge protector. Doing so can cause signal interference or reduce signal strength.
4. **Firmware update.** When you first connect a wireless network adapter to your Recorder, you may see a screen that says "Firmware Update Required." This means your Recorder has a software update for the wireless network adapter you have connected. Select the option to update. This should not take more than a minute or two. During the update, do not disconnect the network adapter wires or the power to the Recorder. Either action might damage the adapter.
5. **Important message.** The first time you press the TiVo button after connecting a network adapter, you will see an Important Message. Review it, then press SELECT on the remote control to go to TiVo Central.
6. **Next Step.** Go to "Completing the Recorder's Network Settings" on page 121.

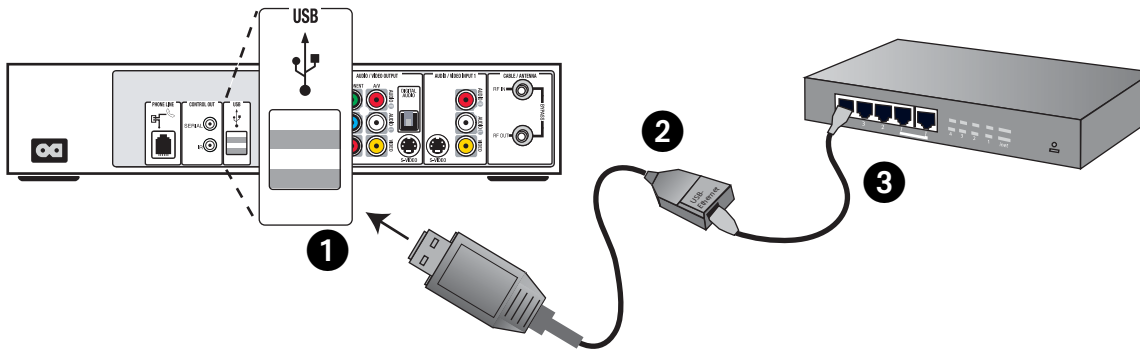
## ► Connecting to a Home Network Using Wired (Ethernet)

This example shows you how to connect a Recorder to a network hub using a wired (Ethernet) network adapter. You can leave your Recorder plugged in while you connect a network adapter.

To connect a wired (Ethernet) network adapter to your Recorder and your network hub, follow these steps:



Do not use the CDs that are included with your network adapters to set up your Recorders. These CDs are intended to load drivers and network adapter software on your personal computer.



1. **Connect to the Recorder.** Connect the USB end of the Ethernet adapter to the USB port on the Recorder.
2. **Connect Ethernet to the adapter.** Plug one end of an Ethernet cable into the Ethernet adapter.
3. **Connect Ethernet to the hub or router.** Plug the other end of the Ethernet cable into your home network's hub or router.

4. **Important message.** The first time you press the TiVo button after connecting a network adapter, you will see an Important Message. Review it, then press SELECT on the remote control to go to TiVo Central.
5. **Next Step.** If your home network has DHCP, wait for a few minutes for your Recorder to automatically complete its network settings, and then you're done! If your network does not have DHCP, or you are having trouble establishing a network connection, go to "Completing the Recorder's Network Settings" on page 121. (DHCP is described in "Basic TCP/IP Concepts" on page 125.)



## ►► Completing the Recorder's Network Settings

If your Recorder is connected to a wired (Ethernet) network adapter, skip to “TCP/IP Settings for a Home Network” on page 124.

### ► **Wireless Settings for a Home Network**

If you have a wireless home network, and have connected a wireless network adapter to your Recorder, as described on page 117, you are ready to complete Wireless Settings for a home network.

To get to Wireless Settings: press the TiVo button on the remote control to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then “Edit phone or network settings,” then Wireless Settings.

**Wireless Checklist.** This is the first Wireless Settings screen you will see. It lists information you need to complete wireless settings. You can find all this information in the configuration settings of your network's wireless access point or router.

If your wireless network does not use encryption (WEP), then you only need to provide a wireless network name; you do not need to provide a password format or password.

When you are ready to continue, press SELECT on your remote control.

**Wireless Connection and Wireless Network Name.** You must now provide the name of your wireless network. Wireless networks have a network name (sometimes called an SSID for *service set identifier*). A wireless network may be *open* or *closed*. Open wireless networks broadcast their network names, allowing devices in their vicinity to identify them automatically. Closed wireless networks do not broadcast their network names, so they cannot be identified automatically.



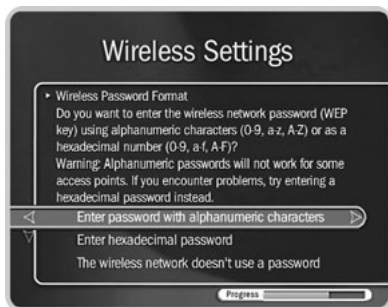
Many of the screens you use to complete **Wireless Settings** or

**TCP/IP Settings** have the same title.

However, they have different subtitles. In this section, each screen is identified by its subtitle.

Screen subtitle





This screen lists the names of nearby wireless networks that your Recorder has been able to identify. If you have a wireless router (or wireless access point) and you did not set a network name, your network is probably using a name supplied by the router's manufacturer.

If your network's name is listed, select it. (You may be able to see more names by pressing CHAN DOWN to scroll down the screen.)

Otherwise, select "Connect to a closed wireless network":

On the Wireless Network Name screen, enter the name of your network using the arrow buttons on your remote to highlight a character. Then press SELECT.

You must use capital and lowercase letters appropriately. For example, to find a network named "My Network" you must capitalize the "M" and "N"; entering "my network" would not work. Use THUMBS UP and THUMBS DOWN to change to uppercase or lowercase. Select "Done entering text" when you are finished.

If the Recorder detects that your wireless network does not use encryption (WEP) you will see the Confirm Settings screen, described on page 124.

**Wireless Password Format.** You see the Wireless Password Format screen if there is a chance that your wireless network uses *WEP encryption*.

**WEP.** WEP is a kind of encryption used by wireless networks to improve their security. There are different levels of WEP encryption, typically called 40-, 64-, 104-, 128-, or 256-bit encryption. Encryption at higher levels offers better security. At the highest levels (104-bit or above), WEP encryption may slow down the transfer of programs from one Recorder to another by a small amount. WEP is usually turned on or off through the configuration settings of a wireless access point or router. If your network uses WEP, then it has a password or "key."

To connect a Recorder to a network that uses encryption, you need to provide:

- **A wireless password format.** WEP passwords may be hexadecimal (a combination of letters from A-F and numbers from 0-9), or alphanumeric (a combination of letters from A-Z and numbers from 0-9). If your network has both an alphanumeric and a hexadecimal password, we strongly recommend you use the hexadecimal password.
- **A wireless password.** It does not matter whether the letters of a hexadecimal password are uppercase or lowercase, but for alphanumeric passwords, capitalization is important. For example, if the password is “MyPassword,” then entering “mypassword” will not work. Some hexadecimal passwords have only numbers.
- **A level of wireless encryption.** If you specify an alphanumeric password, you must also specify a level of wireless encryption. Recorders are compatible with 40, 64, 104, and 128-bit encryption; they are not currently compatible with 256-bit encryption.

Choose a format or select “The wireless network doesn’t use a password.” If you select “The wireless network doesn’t use a password,” you will see the Confirm Settings screen, described on page 124.

## Wireless Password — Alphanumeric or Hexadecimal

- **Hexadecimal (preferred).** Enter a hexadecimal password using the arrow buttons on the remote to highlight a character. Then press SELECT. It does not matter if a letter is uppercase or lowercase. Some hexadecimal passwords contain only numbers.
- **Alphanumeric.** Enter an alphanumeric password using the arrow buttons on your remote to highlight a character. Then press SELECT. You must use capital and lowercase letters appropriately. For example, if your password is “MyPassword”, entering “mypassword” will not work. Use THUMBS UP and THUMBS DOWN to change to uppercase or lowercase. Select “Done entering text” when you are finished.





**Wireless Encryption.** If you entered an alphanumeric password, you will see this screen. Select the level of encryption used by your wireless network. If your network uses 104-bit encryption, select 128-bit encryption. Recorders are not currently compatible with 256-bit encryption.

**Confirm Settings.** Select “Accept these settings” if they are correct. For steps you can take to troubleshoot issues with your wireless connection, see “Questions About Networking” on page 148.

**Change Connection Type.** You see this screen if you are not using a shared Internet connection to connect to the TiVo service. If your network has access to an always-on broadband connection, select “Yes” to use it to connect to the TiVo service instead of a phone line.

**Next Step.** You have completed wireless settings. If your home network has DHCP, and you do not have a DHCP Client ID, the Recorder will automatically complete network setup. We recommend that you confirm the DHCP settings of your network by continuing with “TCP/IP Settings for a Home Network,” below.

If your home network does not have DHCP, or if you have a DHCP client ID, continue with “TCP/IP Settings for a Home Network.”

### ► **TCP/IP Settings for a Home Network**

You are ready to complete TCP/IP settings if:

- You are connecting your Recorder to your home network wirelessly and have already completed “Wireless Settings for a Home Network” on page 121, or
- You have a wired (Ethernet) adapter connecting your Recorder to your home network.

## ► Basic TCP/IP Concepts

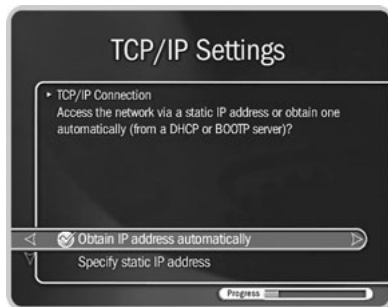
This section describes a few basic TCP/IP concepts. If you are familiar with home networking, you can skip to “Begin TCP/IP Settings” on page 126.

- **IP Address.** TCP/IP settings are used to manage IP addresses on a network. An IP address is a number that identifies a single device on a network (in much the same way that a home address identifies a single home in a town). IP addresses use four numbers separated by periods. Each number can be from 0 to 255. Some example IP addresses are: ‘192.168.0.1’ and ‘10.8.3.25’.
- **DHCP and Static IP Addresses.** DHCP automatically assigns IP addresses to devices on a network. Most home networks include a router or home gateway that has DHCP. If your network has DHCP, or you are creating a peer-to-peer network, your Recorder can obtain its IP address automatically. An IP address assigned by DHCP is called a *dynamic IP address* because it may change automatically as devices are added to or removed from the network.

If your network does not have DHCP, you must specify an IP address for your Recorder. An IP address you specify is considered a *static IP address*, because it will not change until you specify a new one.

If you assign a static IP address to your Recorder, remember that:

- The first three sets of numbers in the IP address usually must match the first sets of numbers in the IP address used by another device on the network (for example, a computer). The first three sets of numbers for IP addresses on a home network are usually: ‘192.168.0’ or ‘192.168.1’.
- If the first three numbers match those of another IP address, the last number has to be unique. For example, two IP addresses for devices on the same network might be ‘192.168.1.5’ and ‘192.168.1.6’.



### ► **Begin TCP/IP Settings**

To get to TCP/IP Settings: press the TiVo button on the remote control to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then “Edit phone or network settings,” then TCP/IP Settings.

**TCP/IP Connection.** On the first screen in TCP/IP Settings you specify how your Recorder gets an IP address. On this screen you can choose to:

- Obtain the IP address automatically. Use this option if your router or gateway has DHCP. Continue with “DHCP Client ID,” below.
- Specify a static IP address if you don’t have a DHCP server. Continue with “**Static IP Address Checklist**. If you do not have a DHCP server, you need to provide all of the following:” on page 127.

If you are not sure what to select, you can try “Obtain IP address automatically.” This selection will work for most people. If it does not work, you can return to TCP/IP Settings later and make other selections. (A brief description of IP addresses is provided in “Basic TCP/IP Concepts” on page 125.)

**DHCP Client ID.** Unless you received a DHCP Client ID from your Internet service provider (ISP), you can select “I don’t have a DHCP Client ID.” This selection will work for most people.

If your ISP provided you with a DHCP Client ID, enter it using the arrow buttons on your remote to a highlight a character. Then press SELECT.

You must use capital and lowercase letters appropriately. For example, if your DHCP Client ID is “ID7343”, entering “id7343” will not work. Use THUMBS UP and THUMBS DOWN to change to uppercase or lowercase. Select “Done entering text” when you are finished. Skip to “**Confirm Settings**. Review the settings and select “Accept these



settings” if they are correct. Congratulations, your Recorder should now be connected to your home network!” on page 128.

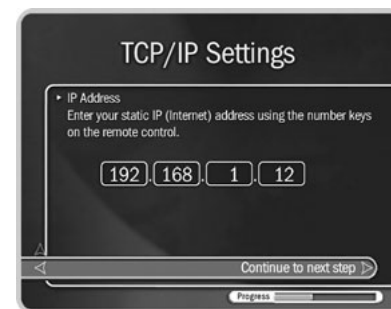
**Static IP Address Checklist.** If you do not have a DHCP server, you need to provide all of the following:

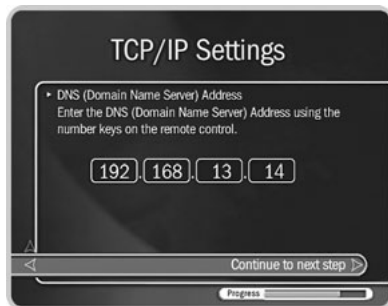
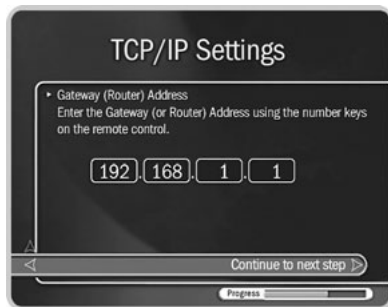
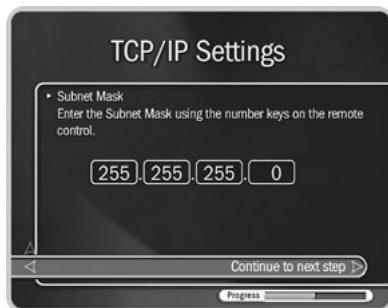
- An IP address for your Recorder.
- A Subnet Mask for your home network.
- An IP address for your home gateway or router.
- An IP address for a DNS (Name Server).

You will create a unique IP address for your Recorder. The Subnet Mask, gateway or router IP address, and DNS IP address are usually provided by your Internet service provider (ISP). They are also usually available on the configuration screens of your home gateway or router.

If you have a computer on your home network, you may be able find the Subnet Mask, home gateway, or router IP address, and DNS IP address in the computer's TCP/IP settings. (If you are having trouble getting this information, contact your Internet service provider.) In addition, you can use your computer's IP address to help create an IP address for your Recorder. For example, if your computer's IP address is '192.168.1.2' then your Recorder's IP address should probably also start with '192.168.1' and end with a number other than 2.

**IP Address.** The first three sets of numbers in the IP address are usually the same as other devices on your home network. The final number is usually unique to a device on your home network. For example, with the IP address '192.168.1.12', the first part, '192.168.1', would be common to all devices on the network. The last part, '12', would be unique to a device on the network.





**Subnet Mask.** A subnet mask allows communication between a large network (such as the Internet) and a smaller sub-network (such as your home network). It uses the same format as an IP address and is usually provided by your Internet service provider (ISP). The subnet mask for a home network is usually ‘255.255.255.0’.

You may also be able to find the subnet mask by inspecting the IP settings of a computer on the same home network, or by contacting your Internet service provider.

**Gateway (Router) Address.** Enter the IP address of your home gateway or router. The IP address is usually available in the configuration screens for your gateway or router. Some common values for the gateway or router IP address on a home network are ‘192.168.0.1’ and ‘192.168.1.1’. If you use a router supplied by your Internet service provider (ISP), your ISP should also have supplied the router’s IP address.

You may also be able to find the home gateway or router IP address by inspecting the IP settings of a computer on the same home network.

**DNS (Domain Name Server) Address.** If your home network includes a broadband connection to the Internet, your Internet service provider (ISP) will have given you a DNS address. You may also be able to find the DNS address by inspecting the IP settings of a computer on the same home network.

**Confirm Settings.** Review the settings and select “Accept these settings” if they are correct. Congratulations, your Recorder should now be connected to your home network!

For steps you can take to troubleshoot issues with your TCP/IP Settings, see “Questions About Networking” on page 148.

**Change Connection Type.** You see this screen if you are not using a shared Internet connection to connect to the TiVo service. If your network has access to an always-on broadband connection, select “Yes” to use it to connect to the TiVo service instead of a phone line.



# Troubleshooting

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## ►► Customer Support

TiVo and HUMAX are dedicated to providing you with quality support and customer service. When you have a question:

1. **Use this chapter.** It contains troubleshooting for questions about:

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Connecting to the TiVo® Service . . . . .	132
DVDs and CDs . . . . .	134
Channels . . . . .	136
Live TV . . . . .	138
Recording Programs . . . . .	139
Recording Conflicts . . . . .	142
Now Playing . . . . .	143
Parental Controls . . . . .	144
Audio and Video . . . . .	145
The TiVo Service . . . . .	147
Networking . . . . .	148

2. **Use the troubleshooting screens on your Recorder.** From TiVo Central, select Messages & Setup, then Troubleshooting.
3. **Contact Customer Support.** Go online or give us a call. Refer to the contact information below.

HUMAX Customer Support	TiVo Customer Support
<ul style="list-style-type: none"> <li>• Connecting your Recorder to your TV &amp; other equipment</li> <li>• Recording DVDs, or playing DVDs and CDs</li> <li>• Channel changing and the remote control</li> <li>• Audio and video</li> </ul>	<ul style="list-style-type: none"> <li>• Using TiVo service features (finding &amp; recording programs)</li> <li>• Your channel lineup and channel lists</li> <li>• Your TiVo service account and billing issues</li> <li>• Online scheduling and Home Media features</li> </ul>
<b>www.humaxusa.com/support</b> <b>1-866-486-2987</b>	<b>www.tivo.com/support</b> <b>1-877-367-8486</b>

## ►► Questions About Getting Started

### **I don't see the Welcome Screen when I plug in my Recorder for the first time.**

- Make sure cables are connected from the OUT jack of one device to the IN jack of another. Never connect OUT to OUT or IN to IN.
- If you're using Composite A/V cables or S-Video cables, make sure your TV is displaying the appropriate video source. You may need to use the Input, Source, or TV/Video button on your TV's remote to change video sources. If you are having trouble changing the video source, refer to your TV's owner's manual.
- If you are passing the signal through your VCR (as in Setup 4 in this guide), tune your TV the way you would to watch your VCR. Also, try turning your VCR on or off. If your VCR has multiple inputs, you may need to select the correct input on the VCR as well.
- If your Recorder is connected to an A/V receiver, and you are having trouble finding the correct input, try connecting it directly to the TV instead.
- The cables you are using to connect your Recorder to your TV or other equipment may be damaged or defective. Try exchanging the cables connected to the Recorder with other cables that you know are working properly.

### **My phone jack isn't near the Recorder.**

- The Recorder comes with a 25 foot phone cord. Phone cords longer than 25 feet are available at most hardware or electronics stores.
- After you complete Guided Setup, you can connect your Recorder to a home network and use a broadband Internet connection instead of a phone line to connect to the TiVo service. See Chapter 7 for details.

### **My TiVo Recorder remote control doesn't control my TV's power, volume, etc.**

- You can program the Recorder's remote control to turn your TV on and off, and control its volume and mute functions. You can also program it to control volume and mute on an A/V receiver or stereo. See "Remote Control & Recorder Front" on page 96.

**My TiVo Recorder remote control doesn't work with my Recorder.**

- Be sure you are using the Recorder's remote, and that you hold it so that the TiVo button points toward the Recorder.
- Try changing the position of the Recorder SWITCH on the remote control.
- Press any button on the remote. Does the red light above the TiVo button on the remote flash?

If the red light does not flash, make sure the batteries are positioned correctly in the remote. If they are correctly positioned, try a new set of batteries. See the inside front cover of this guide for instructions on installing batteries.

If the red light on the remote does flash, watch the lights on the front of the Recorder. Do the lights seem to respond (i.e., blink or flash) when you press any button on the remote? If lights on the front of the Recorder do not respond to the remote, restart your Recorder by unplugging it, waiting 15 seconds, then plugging it back in.

- You may not have the correct input selected on your TV. Use the Input, Source, or TV/Video button on your TV's remote to change the input. If you are passing the signal through your VCR, you may need to select the correct input on the VCR as well.

## ►► Questions About Connecting to the TiVo Service

**Why does the Recorder have to be connected to a phone line or the Internet?**

- The Recorder needs to be connected to the phone line or the Internet so that it can make periodic connections to the TiVo service. This connection downloads program information, which tells the Recorder when programs are scheduled to air and on what channel. The connection may also retrieve additional information such as updates to the TiVo service, Showcases, and TiVo! Magazine.

In addition, the connection sends anonymous viewing information back to TiVo—that is, anonymous information about viewing choices, which do not identify you as an individual or household. TiVo has no way to access any of your personally identifiable viewing information from your Recorder without your prior consent. Without your consent, the TiVo service has no way of knowing what shows you—as an individual or household—have watched or recorded. For more information, read the TiVo Privacy Policy on page 154.



### **Do I need to keep the phone connected all the time?**

- We recommend you leave the Recorder connected to the phone line all the time. The TiVo service will not interfere with other needs for the phone line, and periodic connections will keep the Recorder's program information fully up to date.
- You can also use a broadband Internet connection to connect to the TiVo service instead of a phone line. See Chapter 7 for details.

### **My Recorder's phone connection to the TiVo service is failing.**

- First, verify that your phone line is working by connecting a phone to it, then listening for a dial tone. Make sure the phone cord is connected to both the Recorder and the phone jack. If the phone line is working, continue with the troubleshooting here. If it is not working, contact your telephone service provider.
- The following tips require changing your Phone Dialing Options. To change Phone Dialing Options, go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then "Edit phone or network settings," then Phone Dialing Options. After you change a Phone Dialing Option, the Recorder will make a test connection to verify whether or not your problem was solved.

#### **Phone Connection Troubleshooting Tips:**

- Try another local dial-in number. Select "Set Dial-In Number." Confirm your area code, then select a new number from the list of available numbers for your area.
- If you have voice mail on this phone line or use another non-standard dial tone, turn off "Dial Tone Detection." (Select "Set Dial Tone Detection," then select "Off.")
- If you dial a prefix for outside lines, be sure it is entered on the Phone Dialing Options screen. To enter or change a prefix, select "Set Dial Prefix," then follow instructions on the screen. For example, if you must dial 9 to reach an outside line, select "Set Dial Prefix," then press "9" then the PAUSE (  ) button. (This enters a 9, followed by a comma. The comma inserts a pause.)
- If you have call waiting, be sure it is disabled during the daily phone call. (Select "Set Call Waiting Prefix," then enter the correct prefix, usually "\*70,". You would enter "\*70," by pressing CLEAR then "7" then "0" then the PAUSE (  ) button.)

- Your phone line may have low voltage. Set ‘Phone Avail.’ Detection to “Off.” (Select “Set Phone Avail. Detection,” then select “Off.”) If you have a cordless telephone, fax machine, or computer modem connected to the same line, try turning ‘Phone Avail.’ Detection off, as well. When ‘Phone Avail.’ Detection is off, you may hear a click on the line when the Recorder tries to call. This is the sound of the Recorder picking up the line to see if it is free.
- If you use a wireless modem jack, try connecting the Recorder directly to a standard wall jack.
- If you have a caller ID box, try removing it from the line, since some models interfere with the Recorder’s ability to make a call.
- If you have DSL, try installing a DSL filter on your phone line.
- It could be that you have too much line noise due to the length of the phone cord. Try a shorter cord, or you can buy a line noise filter at your local electronics store.

### **What if I need to use the phone while the Recorder is connecting to the TiVo service?**

- You can interrupt the connection. To do this, pick up the phone, then hang it up. Wait about 45 seconds. When you pick it up again, there should be a dial tone. Repeat this process if necessary.

### **What if my phone line is busy when the Recorder tries to connect to the TiVo service?**

- The Recorder will continue to attempt to connect several times a day until it is successful. You can check the status of the connection on the Phone & Network Setup screen (from TiVo Central, select Messages & Setup, then Settings, then Phone & Network Setup). The status of the most recent connection is displayed near the top of the screen.

### **Am I charged for connections to the TiVo service?**

- TiVo uses either a standard phone line or a broadband Internet connection to provide the TiVo service, and is available as a local call in most areas. In some areas, however, local and long distance toll charges may apply. You are responsible for any phone charges.

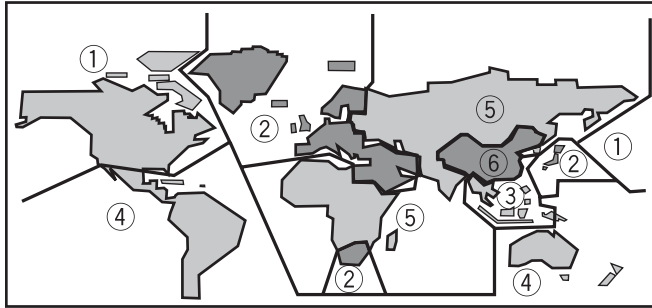
## ►► **Questions About DVDs and CDs**

### **I cannot play DVDs or CDs on the HUMAX DVD Recorder.**

- You must complete Guided Setup (see Chapter 2) before the Recorder can play DVDs or CDs.

- Check that the disc is loaded properly (aligned in the disc tray with the label side up).
- Remove the disc and clean it.
- Check that the disc has a region code compatible with the Recorder. If one of the regional codes on the disc does not match the number on the back panel of the Recorder (region code 1), the disc can't be played. Discs marked ALL will play in any DVD player.

Regional restriction codes are built-in to DVD players and DVDs for each sales region.



- There may be condensation in the player. Allow time for condensation to evaporate. Leave the Recorder for an hour or so, then try again. If the Recorder is near an air-conditioning unit, you should move it.

### **The Recorder is not playing audio on a DVD.**

- If playing a DTS DVD, the Recorder must be connected to a DTS Receiver to receive audio.

### **The DVD did not record successfully.**

- Check whether the source that you are trying to record is copy protected. You cannot record copy-protected material using this Recorder. For more information, see “Compatibility and Copy Protected Material” on page 64.
- Check that there wasn't a power outage during the recording.

**I can't play a DVD disc that I recorded using my HUMAX DVD Recorder in another DVD player.**

- Not all DVD players will play all discs, even if the disc has been finalized.

**I can't save programs to a DVD disc I purchased.**

The Recorder will only save to DVD-R and DVD-RW discs. It will not save to other disc formats (such as DVD+R or DVD+RW). For more information, see “Compatibility and Copy Protected Material” on page 64.

## ►► Questions About Channels

**Can I watch one channel while recording from another?**

- Yes. See “Watching One Channel & Recording Another” on page 18. (You will not have TiVo functionality on the channels you watch using an RF cable that goes directly to your TV.) You can always watch any program from the Now Playing list while the Recorder is recording a program.

**I can't get the channel to change.****If you use cable with no cable box:**

- Be sure that you are using the TiVo remote and that you hold it so the TiVo button points toward the Recorder.
- Press any button on the remote. Does the red light above the TiVo button flash? If not, make sure the batteries are positioned correctly in the remote. If they are, try a new set of batteries. If the red light on the remote does flash, do the lights on the front of the Recorder seem to respond when you press any button on the remote? If they do not, restart your Recorder by unplugging it, waiting 15 seconds, then plugging it back in.

**If you have a cable or satellite box and used the IR Control cable:**

- Make sure the cable or satellite box is turned on.
- Make sure you are using the Recorder's remote control, and that you hold it so the TiVo button points toward the Recorder, not at the cable or satellite box.



- Refer to page 6 to verify that the IR Control cable is positioned correctly in front of the IR sensor. Also, make sure the purple end of the cable is plugged into the **Control Out-IR** jack on the back of the Recorder.
- You may consider optimizing the IR Control connection as described on page 9.
- Press the TiVo button to go to TiVo Central, then select Messages & Setup, then Cable/Satellite Box, then Control Cable Setup. Verify the IR code you chose during Guided Setup. See page 6 for more on choosing an IR code.
- Try using the cable or satellite box's remote to change the channel. If it doesn't work, contact the manufacturer or service provider.

**If you have a Motorola/General Instruments DCT2000 series cable box or a DIRECTV® satellite box and you used the Serial Control cable:**

- Make sure the cable or satellite box is turned on.
- Verify that the Serial Control cable is plugged into the data connector on the cable or satellite box and into the **Control Out-Serial** jack on the back of the Recorder.
- Unplug the cable or satellite box's power cord, then plug it back in. Then try changing channels with the TiVo remote again.
- Try using the cable or satellite box's remote to change the channel. If it doesn't work, contact the manufacturer or service provider.
- Serial control of a Motorola/General Instruments DCT2000 series cable box may not be available for all customers. Check with your cable provider to find out if your cable box is enabled for serial control.
- **Satellite Box Only:** You may have incorrectly specified the type of program guide for your DIRECTV satellite box. There are two types of program guides: MPG (Master Program Guide) and APG (Advanced Program Guide).

**To change this option:** First, unplug the power cord for the satellite box, wait a few seconds, then plug it back in. Next, go to TiVo Central, then Message & Setup, then Settings, the TiVo Recorder Setup, then Cable/Satellite Box, then Satellite Channel Changing and select "Satellite Box." On the Connection to Satellite screen, if you originally selected Serial-MPG, change your selection to Serial-APG. (If you originally selected Serial-APG, change it to Serial-MPG.) You can also check the manual for your satellite box (as well as the satellite box's system setup screen) for information on the type of program guide it uses.

**I can't go to one of my channels.**

- You may be using a channel list that does not include the channel you want. Use the numbers on the remote control to enter the channel number, then press ENTER. For more information on using a channel list, see page 47.
- The channel you want may be showing a program that exceeds a limit set with Parental Controls. In this case, you will see only a black screen with a notice that a limit has been exceeded. You will be able to tune to the channel if you use the Parental Controls password. (For more information on Parental Controls, see page 89.) If your cable or satellite box has a feature like Parental Controls, you may have to use the satellite or cable box's remote to disable it as well.

**I can't find all the channels I receive in the Channels You Receive list.**

- Have you changed your satellite or cable provider, or changed your subscription package? If you have, you should repeat Guided Setup to specify your current satellite or cable provider and lineup. From TiVo Central, select Messages & Setup, then Restart or Reset System, then Repeat Guided Setup. Press THUMBS DOWN three times, and then press ENTER. You may need to check all of the available selections to find the right one since cable providers often change their lineups. For complete instructions on Guided Setup, see Chapter 2.
- If you have cable, and have not changed your cable provider, go to Messages & Setup, then Settings, then Channels, then Cable Lineup. Look at your cable or satellite bill, then check the Channels You Receive list. If the channels are incorrect, try another Cable Lineup. If that does not work, go to [www.tivo.com/support](http://www.tivo.com/support).

## ►► Questions About Live TV

**Can I watch a program while it is being recorded?**

- Yes, you can watch a program as it is being recorded; you can even start watching from the beginning while the rest of the program is recorded! You can also watch any program stored in Now Playing while another program is being recorded.

**The Channel Banner always says "To be announced."**

- Your Recorder probably does not have full program information. For details, see the question "I can't find my program in Search by Title or Search Using a WishList, even though I know it's on," on page 139.

**There aren't any shows listed in the program guide.**

- Your Recorder may not have program information. See “I can't find my program in Search by Title or Search Using a WishList, even though I know it's on,” on page 139.
- If category filtering of the guide is turned on, but no upcoming programs in the next six hours match both your filter and your Favorite Channels list, no programs will appear in the guide. To view programs in the guide again, use the Guide Options to turn off filtering. (See page 47.)

**I can't find my program in the guide, even though I know it's on.**

- You can choose a channel list or filter to use with the guide. Not all programs or channels will be displayed if you have chosen to use a filter or the “Favorites” channel list. Press GUIDE to display the live guide, then ENTER to choose “Channels You Receive” or to turn off filters. You can also add and remove channels on the “Channels You Receive” and “Favorites” channel lists. (See page 86.)
- Occasionally the program information provided by the networks includes errors. We would like to hear of any inaccuracies you discover so that we can work with our providers to correct them. See the Customer Support contact information at the beginning of this chapter.

## ►► Questions About Recording Programs

**I can't find my program in Search by Title or Search Using a WishList, etc., even though I know it's on.**

- The Recorder uses the Channels You Receive list to search for programs in all the features under Pick Programs to Record. To check if you've selected the program's channel, go to Messages & Setup, then Settings, then Channels, then Channels You Receive. Does the channel have a check mark next to it? To give it one, highlight the channel and press SELECT. (For instructions on customizing this list, see page 86.)
- Look on the Phone & Network Setup screen (from TiVo Central, select Messages & Setup, then Settings, then Phone & Network Setup) for the time of the last successful connection to the TiVo service. If it was more than 36 hours ago, your Recorder may be having trouble connecting to the TiVo service. Select “Test connection” to test the current settings. If the test connection does not succeed, see page 132 for connection troubleshooting. Once you have made a successful test connection, start a regular connection

by selecting “Connect to the TiVo service now.” If your connection is successful, new program information will be downloaded and organized, and become available to search in about 1 to 5 hours.

- Is your TiVo service account up to date? Check your account status on the System Information screen (from TiVo Central, select Messages & Setup, then System Information). If your account is suspended or closed and you wish to re-activate it, go to [www.tivo.com/manage](http://www.tivo.com/manage), or refer to page 130 for Customer Support contact information and give us a call.
- Occasionally the program information provided by the networks includes errors. We would like to hear of any inaccuracies you discover so that we can work with our providers to correct them.

### **I can't use features in Pick Programs to Record. The Recorder says it is organizing program information.**

- Your Recorder may not have all its program information yet. The first time you go through Guided Setup, the Recorder downloads program information from the TiVo service. The Recorder then indexes this information in the background over the next 4-8 hours. As the program information gets indexed, more of it becomes available. After 8 hours, full information (for up to 2 weeks from the time of the last successful connection to the TiVo service) is available for you to use. Wait a few hours, then try to find your program again.
- If the Recorder loses power while it is indexing program information, the indexing process will stop until the Recorder makes a successful connection to the TiVo service, and then will start again. If your Recorder lost power while it was indexing program information, you can get it to start indexing again by plugging it in and then starting a connection to the TiVo service. To do this, go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then “Connect to the TiVo service now.”

### **What happens if a sports event I have scheduled to record goes into overtime?**

- The TiVo service cannot predict whether a sporting event might go into overtime, but we provide a feature that lets you add from one extra minute to three hours at the end of a recording just in case. We call the feature the Overtime Scheduler. The Overtime Scheduler has two options: “Start Recording” and “Stop Recording.” Both are available on the Recording Options screen. You can even use the Overtime Scheduler to change the scheduled end of a recording while the program is being recorded. You can use the Overtime Scheduler with any kind of program, not just sports. For more information on Recording Options, see page 43.

If you are watching a program while it's being recorded, you can record an overtime segment in a couple of ways. One way is to go into Now Playing, select the recording, then select “Change recording options.” On the Recording Options screen that appears, select

“Stop recording.” Use RIGHT arrow to increase the length of the recording by anywhere from one minute to 3 hours. Alternatively, you could choose to press the RECORD button after the regularly scheduled part of the program has finished.

### **Is there a way to record a program that will not be aired for weeks or months?**

- Create an auto-recording WishList for programs that are not yet listed in the guide. See page 54 for details on WishList searches.
- If you know the date, time, and channel on which the program will air, you can create a manual recording to record it. You can create manual recordings by going to TiVo Central, then selecting Pick Programs to Record, then Record by Time or Channel, then Manually Record Time/Channel. (See page 50 for details.)

### **How do I set the clock so that my shows are recorded on time?**

- If you are missing the beginning or end of a show, it usually means that the broadcaster is not starting or stopping the show on time. You can use the Overtime Scheduler®, described on page 44, to compensate for this.
- The TiVo service sets your Recorder’s clock during every service connection. If you set your time zone and Daylight Savings Time correctly in Guided Setup, you never have to worry! If you move to a new time zone, change your Recorder’s time settings by repeating Guided Setup. To connect to the TiVo service at any time, go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then “Connect to the TiVo service now.”

### **How do I record a Pay Per View event?**

- From live TV, catch up to the present broadcast by pressing the ADVANCE button. Then, order the program from your cable or satellite provider as you normally would—by using your satellite or cable box remote, or by calling your cable/satellite provider. (If the program violates a Parental Control limit—or a feature like Parental Controls on your cable or satellite box—make sure to disable both TiVo Parental Controls and your satellite or cable box’s Parental Controls.) To record the program, search for it in Browse by Time. If there are no listings for Pay Per View events, record the showing with the Manually Record Time/Channel option under TiVo Central, then Pick Programs to Record, then Record Time/Channel.

Some content may not be saved to DVD due to copy protection rights over the material. For more details, see “Copy Protected Material” on page 64.

**Why wasn't my program recorded?**

- Check Recording History for an explanation of why the program did not record. Recording History is the first selection in the To Do List (from TiVo Central, select Pick Programs to Record, then To Do List, then View Recording History). Here are some reasons why a program may not be available in Now Playing:
  - The program may have been canceled by the network.
  - If you had two Season Pass recordings that were on at the same time, only the Season Pass with the higher priority would be recorded. Priorities and the Season Pass Manager are described on page 45.
  - The program may have been deleted from Now Playing by someone else in your household.
  - There may have been a conflict when requesting another program, and the proposed resolution was to delete the missing program earlier than planned. If you accepted that resolution, the program would have been deleted.
  - There may have been a channel changing problem. See “Questions About Channels” on page 136.

**►► Questions About Recording Conflicts****Can I record multiple programs simultaneously?**

- No. You can watch any program in Now Playing while another is recording. However, you can only record one program at a time on your Recorder, because it does not contain the necessary hardware to record two programs at once. The DIRECTV Recorder with TiVo has two tuners and can record two programs at the same time.

**How can I record a program (or programs) when there is a conflict?**

- The Recorder gives each repeating recording a priority. You can resolve some conflicts in favor of preferred programs using the Season Pass Manager to change priorities (see page 45.)
- If you encounter a conflict for a single episode, use “View upcoming episodes” to see if the program or episode you want will air at a different time.

- You can sometimes resolve recording conflicts by changing the “Stop Time” or “Start Time” Recording Options. (See page 43 for more about Recording Options.) If you set a program to start recording one minute early, it may conflict with a recording that airs right before it. To resolve such a conflict, change the “Start Time” back to “On Time” on the Recording Options screen.
- If a single episode of a repeating recording conflicts with another program, you can select that episode in the To Do List and change it independently of the rest of the repeating recording.

## ►► Questions About Now Playing

### **Can I recover a recorded program that was deleted?**

- No. There is no way to bring back a program that has been deleted from Now Playing. You can choose to keep programs as long as you want (see page 72) or save programs to video tapes or recordable DVDs (see page 61).

### **I haven’t scheduled enough programs to fill my Recorder, but when I try to schedule more programs, the Recorder says there isn’t room.**

- The TiVo service includes smart scheduling features that track not only how much space you currently have on your Recorder, but also how much space will be needed in the future to record all of the programs you have scheduled. If your Recorder will be full at some point in the future, the TiVo service informs you and suggests options—such as allowing some programs to be deleted early—that will allow you to schedule additional recordings. With the TiVo service, you always have the final say over what gets recorded and how long it is kept.
- In addition, the amount of recording space the Recorder needs varies from channel to channel and from show to show. In general, the more action you see on your screen, such as in fast-moving sports or action movies, the more recording space is required. Weaker video signals may also require more space. The amount of space required for each show you record affects the total hours of recording capacity in your Recorder.

**How can I fit more programs in Now Playing?**

- To make space, delete some programs in Now Playing. You delete a program by highlighting its title, then pressing CLEAR.
- Lowering the default recording quality will allow you to fit more programs in Now Playing. See page 93 for details.
- Set up Season Pass recordings with the Recording Option “First-run only.” You’ll collect only new episodes. You’ll also be less likely to run out of space in Now Playing and less likely to encounter conflicts.

**What does it mean when my Recorder says programs will be deleted earlier than planned?**

- By default, all programs are kept until space is needed. After that, programs you have not set to save longer may be deleted to make room for other recordings you request. The TiVo service includes smart scheduling features that keep track of when programs become available to be deleted, and of how much free space will be available at any given time in the future. If space will not be available to record a program you request, the TiVo service gives you the option of deleting some programs early to make more room. However, you always have the final say on how long the Recorder keeps programs. You can delete a program at any time, and you can always change how long it is saved. Just select the program in Now Playing, then select “Keep until...”

## ►► Questions About Parental Controls

**My Parental Controls are not working.**

- For Parental Controls to work, they must be on (and must not be temporarily turned off). When you enter your password to watch a program that violates Parental Controls, they are temporarily turned off. You can re-enable them on the Parental Controls screen (from TiVo Central, select Messages & Setup, then Settings, then Parental Controls), or by putting your Recorder in Standby mode and then taking it out of Standby. You can put your Recorder in Standby mode by going to TiVo Central and selecting Messages & Setup, then Standby. To return to normal mode from Standby, press either the TiVo button or the LIVE TV button. (On some remotes, there is a POWER button that puts the Recorder in Standby mode and takes it back out.)

**I disabled Parental Controls, but I still can’t tune to the channel I want.**

- If your cable or satellite box has a feature like Parental Controls, make sure you have disabled them with the satellite or cable box’s remote. See your cable or satellite box’s owner’s manual for instructions.



- You may be using a channel list that does not include the channel you want. Use the number buttons on the remote control to enter the channel number, then press ENTER. For more information on using a channel list see page 47.

## ►► Questions About Audio and Video

### **The audio and video are out of sync.**

- The audio and video may re-sync if you change channels.
- You may be able to re-sync audio and video by pressing the INSTANT REPLAY button on the remote control.
- Press the TiVo button to go to TiVo Central, then press the LIVE TV button to return to live TV.
- You can also try restarting your Recorder. From TiVo Central, select Messages & Setup, then Restart or Reset System, then Restart the Recorder. On the Restart the Recorder screen, press the THUMBS DOWN button three times, then press ENTER. You will see the Welcome screen and the system will restart within a few minutes.

### **My Recorder was working, but now the picture does not move**

- Try restarting your Recorder. From TiVo Central, select Messages & Setup, then Restart or Reset System, then Restart the Recorder. On the Restart the Recorder screen, press the THUMBS DOWN button three times, then press ENTER. You will see the Welcome screen and the system will restart within a few minutes. You can also restart the Recorder by unplugging it, waiting at least 15 seconds, then plugging it back in.

### **I don't get a picture now, even though I have been able to get one in the past.**

- Someone in your household may have placed the Recorder in Standby mode. To return to normal mode from Standby, press either the TiVo button or the LIVE TV button. (On some remotes, there is a POWER button that puts the Recorder in Standby mode and takes it back out.)
- Your TV may not be set to the correct input. Most TVs have an input button that says either "TV/Video," "Input," or "Source." It may be on the TV or on the TV remote control. Look at your TV and TV remote and try changing the input for your TV.

- If you have your Recorder connected to a VCR, the VCR may not be set to the correct input. Most VCRs have an input button that says either “TV/Video,” “Input,” or “Source.” It may be on the VCR or on the VCR remote control. Look at your VCR and VCR remote and try changing the input for your VCR.
- Check to make sure all of the appropriate cables are firmly connected to your Recorder, television and other audio/video equipment. For help with your cable connections, see the *Start Here* booklet and Chapter 1 of this guide.

### **My audio system is set up to play in stereo, but it is only playing mono.**

- Make sure that “Main Audio Program (stereo)” is selected on the Television Audio screen (TiVo Central and select Messages & Setup, then Settings, then Audio, then Television Audio). And be sure you connected audio using the Recorder’s L/R Audio Out jacks.

### **I can’t select an alternate audio track.**

- Secondary audio programs (SAP) are not available for all programs. If you set the SAP as the default audio, programs that have SAP will use it. Only one audio track is saved with recorded programs. If SAP is the default audio and a program you are recording has an SAP, the SAP will be the recorded program’s only audio. You can set the default audio on the Television Audio screen (from TiVo Central, select Messages & Setup, then Settings, then Audio, then Television Audio).
- Recorded programs, such as those in Now Playing, always have only one audio track, the one they were recorded with.
- You cannot change the audio track if you are watching a live program, but are not caught up to live TV. Catch up to live TV by pressing the ADVANCE button. Changing the audio program will clear the saved part of the program you are watching, so you will only be able to rewind live TV to the point where you changed the audio program.

### **Programs are playing in the wrong language.**

- You may have selected the secondary audio program (SAP) as the default audio on the Television Audio screen. Most programs with SAP use it to broadcast in an alternate language. To turn off the SAP, change the main audio program on the Television Audio screen (from TiVo Central, select Messages & Setup, then Settings, then Audio, then Television Audio).

### **When I turn on my TV, I see a blue screen with a TiVo logo.**

Your Recorder is having trouble tuning to the channel you are on. Follow these steps to restore the video:

- Try changing channels. If the blue screen appears on just a few channels, you may be tuned to a channel to which you do not subscribe, or you may be experiencing a weak signal on a channel to which you do subscribe. If you do not subscribe to the channel, you should take it off the “Channels You Receive” list. (For more information, see page 86.) If you do subscribe to the channel, wait 24 hours to see if the signal improves, or call your cable or satellite provider.
- If you have a satellite or cable box, go to Messages & Setup, Cable/Satellite Box, Connection to Recorder. Verify that you chose the same cable on this screen that you used to connect your satellite or cable box to the Recorder.
- If the blue screen appears on every channel, and you have a cable or satellite box, make sure it is turned on.
- You may be experiencing a temporary cable or satellite outage; check with your cable or satellite provider.
- Your video cable may have come loose. Make sure all the cable connections on the back of your Recorder are secure.
- Verify that you are receiving a video signal by temporarily connecting the video source directly to the TV. If you still do not see any video, there may be a problem with your cable, satellite or antenna equipment.
- The cables you are using to connect your Recorder to your TV or other equipment may be damaged or defective. Try exchanging the cables connected to the Recorder with other cables that you know are working properly.
- Restart your Recorder. (From TiVo Central, select Messages & Setup, then Restart or Reset System, then Restart the Recorder. Press THUMBS DOWN three times, then press ENTER. You will see the Welcome screen, and the system will restart within about 45 seconds. You can also restart the Recorder by unplugging it, waiting 15 seconds, then plugging it back in.

## ►► Questions About the TiVo<sup>®</sup> Service

### **Will my Recorder still work without the TiVo service?**

- Without the TiVo service, your Recorder will have extremely limited functionality. The Recorder was designed to be used exclusively with the TiVo service. The TiVo service is required for proper operation of the Recorder. No functionality is represented, warranted or should be expected without a subscription to the TiVo service. The Recorder uses the program information provided by the TiVo service to record the programs you request, to provide Season Pass functionality, to power the program guide, to allow you

to search for programs by name, etc. The TiVo service may also provide you with new Showcases, TiVo! Magazine, and service updates.

### **What happens if my Recorder loses power temporarily?**

- Everything is saved—including your Now Playing programs—regardless of the length of time the Recorder is without power. The only thing you will miss is a recording that was scheduled to occur during the time the power was out.

### **Will the TiVo service collect information about my viewing habits?**

- TiVo has designed its system and instituted policies to ensure that TiVo is unable to access any of your personally identifiable viewing information without your prior consent. TiVo does collect anonymous viewing information; that is, information about viewing choices made while using your Recorder, which does not identify you as an individual or household. In other words, there is no contact information associated with the viewing information that could identify the viewing information as coming from you or your household. If you don't want even your anonymous viewing information used in any way, you may simply call and tell us, and we will stop collecting it. (See page 130 for our phone number.) For more information, see Chapter 9 or go to [www.tivo.com/privacy](http://www.tivo.com/privacy).

### **How is information from the TiVo service delivered to my Recorder?**

- The Recorder automatically makes regular connections to the TiVo service to download program information and other data. Information may also be delivered by a special TiVo program that is recorded late at night (when it does not conflict with any of your requested recordings).

## ►► Questions About Networking

### **I can't find "Edit phone or network settings."**

- The menu item "Edit phone settings" will change to "Edit phone or network settings" after you connect a network adapter that the Recorder recognizes to the Recorder's USB port. To see the Phone & Network Setup screen, press the TiVo button to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup.

If you have attached an adapter and still see "Edit phone settings:"

- Make sure the USB cable between the adapter and the Recorder is plugged firmly into both devices.

- Confirm that you are using a recommended adapter. Check the list online at [www.tivo.com/adapters](http://www.tivo.com/adapters). You may need to use a different adapter.

### **My Recorder is not connecting to the TiVo service.**

- You can make the Recorder connect to the TiVo service at any time. Press the TiVo button to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then “Connect to the TiVo service now.”
- Your Recorder can connect to the TiVo service via a home network’s always-on broadband Internet connection, or via a phone line. To change the type of connection your Recorder uses to connect to the TiVo service, press the TiVo button to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then “Change connection type.”
- If your Recorder is having trouble connecting via a broadband Internet connection:
  - **Check that the Internet connection is available, then troubleshoot.** There are two links in the chain between your Recorder and the Internet: your Recorder’s connection to your home network, and your home network’s connection to the Internet. First, confirm that the connection between your home network and the Internet is working. Try to go online and browse a web site from a computer on the same network as your Recorder. If you cannot browse the Internet, you must fix the connection from your network to the Internet. After you have fixed this connection, try again to make your Recorder connect to the TiVo service. (Press the TiVo button to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then “Connect to the TiVo service now.”) If you can browse the web, then see “My Recorder is not connecting to my home network,” below.
  - **Use a phone line.** Use a regular phone line to connect to the TiVo service.
- If your Recorder is having trouble connecting over a regular phone line:
  - **Use broadband.** If you have a home network with a broadband Internet connection, try allowing your Recorder to use it to connect to the TiVo service over the Internet. Doing this eliminates the Recorder’s need to use a phone line. See Chapter 7 for more details.

**My Recorder is not connecting to my home network.**

Any of the steps below may fix a network connection; you probably will not have to complete each one. For additional steps for wireless networks, see “My Recorder is not connecting to my wireless home network.” on page 151.

**1. Check network adapter.**

- The network adapter or cables could be defective. If you have another adapter or USB cable available, try that adapter or cable.
  - The network adapter that you attached may not be supported. If your network adapter is compatible with your Recorder, and functioning properly, a MAC address—an identifier unique to the network adapter you purchased—is visible on the Phone & Network Setup screen. To check, from TiVo Central, select Messages & Setup, then Settings, then Phone & Network Setup. The MAC address should be on the top right-hand side of the Phone & Network Setup screen. If you do not see a MAC address listed, your Recorder is not recognizing the network adapter you installed. The adapter is either not compatible, not functioning properly, or not properly connected. If you do see a MAC address, the adapter you are using may or may not be compatible. For more information, see “USB Ports, Wireless and Wired Network Adapters” on page 116.
2. **Check connection to the network adapter.** Unplug the USB cable from the back panel of your Recorder and then plug it back in. Make sure the cable is pushed all the way in; sometimes lights on the adapter turn on before the USB cable is pushed all the way in. Unplug the side of the USB cable connected to the adapter and then plug it back in.
  3. **Restart the Recorder.** Press the TiVo button on the remote control to go to TiVo Central, then select Messages & Setup, then Restart or Reset System, then Restart the Recorder. Press THUMBS DOWN three times, then press ENTER.
  4. **Check physical connections.** Ensure that all network equipment is receiving power and all cable connections for routers, hubs, access points, and computers are working. Verify that the “connection” light is lit on devices connected to the network.
  5. **Powercycle network devices.** If you have a router or wireless access point, unplug it, wait a moment, and then plug it back in. This will temporarily halt your network’s Internet connection. It may take a minute for your equipment to “restart” after you plug it in.
  6. **Check your Network Settings.** Verify that your Network Settings are correct. Complete TCP/IP Settings, even if you did not when you first connected your Recorder. For more information, see “Completing the Recorder’s Network Settings” on page 121.

7. **Update router or home gateway firmware.** If your home network includes using a router, home gateway, or wireless access point, it may need a firmware update. Firmware is a software program that is loaded onto a hardware device. You can usually find any updated firmware at the Customer Support web site for the manufacturer of your hardware. (For example, if you have a Linksys device, check <http://www.linksys.com/download/>.) Older firmware may cause unpredictable results. It may be necessary to power-cycle your device before and after you reinstall the firmware.
8. **Check Static IP Address.** If you assigned an IP address to your Recorder, check that its IP address is unique on your network. Also, confirm that the first three sets of numbers of the Recorder's IP address are the same as those of other devices on the network. (For example, if your computer's IP address starts with "192.168.1" then your Recorder's IP address must also start with "192.168.1".)
  - You may have assigned a static IP address on a network with a DHCP server. If your network includes a DHCP server (for example, as part of your router), you should not assign static IP addresses to devices on the network. Go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then "Edit phone or network settings," then TCP/IP Settings, then "Obtain IP address automatically."

If you have a wireless network, also try the steps below.

### **My Recorder is not connecting to my wireless home network.**

Connecting to the network access point may take several minutes once the problem is resolved. Be certain the Phone & Network Setup screen has had time to update to display the true network status before making any additional changes. To refresh the Phone & Network Setup screen using the remote control, press the LEFT arrow to go to the previous screen, and then press the RIGHT arrow to return to the Phone & Network Setup screen.

1. **Check power at wireless access point.** Ensure the wireless access point or wireless router is receiving power and that the "connection" light is on.
2. **Change password format.** If you used an alphanumeric password for your wireless network, try using a hexadecimal password instead. You can find a hexadecimal password (sometimes referred to as a "Key" or "WEP Key") in the configuration settings for your wireless access point or wireless router. If more than one hexadecimal password is listed, always use the first one. To change the password format, follow the instructions for completing Wireless Settings at "Wireless Settings for a Home Network" on page 121.

3. **Check signal strength.** On the Phone & Network Setup screen (press the TiVo button to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup), check the wireless signal strength.

The following may improve wireless signal strength:

- Make sure the wireless adapter is placed well away from the Recorder's power supply, or power strips, or surge protectors. Any of these may cause interference and reduce signal strength. Some household appliances, such as microwave ovens and 2.4 GHz cordless phones, may also reduce signal strength when they are in use.
  - Verify that the wireless network adapter's antenna is fully extended.
  - Move the wireless network adaptor to a higher position, or give it a better line of sight to your wireless gateway (router).
  - Reduce the distance between the wireless network adapter and the wireless access point. Wireless networks typically have a range of 100 - 300 feet, but distances can vary based on walls, floors, and other obstructions. It may be necessary to adjust the location adapter of your wireless access point or router to be closer to the network adapter attached to your Recorder(s).
  - Consider adding a signal booster to your network (available from some wireless equipment manufacturers).
4. **Check network name.** On the Wireless Settings screen (press the TiVo button to go to TiVo Central, then select Messages & Setup, then Settings, then Phone & Network Setup, then "Edit phone or network settings," then Wireless Settings), check that the network name (SSID) for your network access point is listed correctly. To change the network name, follow the instructions for completing Wireless Settings at "Wireless Settings for a Home Network" on page 121.

If you haven't already done so, you should also try the steps in "My Recorder is not connecting to my home network." on page 150.



# Privacy, Service, Warranty, and Licenses

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## ►► TiVo Privacy Policy

### PREAMBLE

TiVo Inc. (“TiVo”) is committed to protecting the privacy of your personal information. The TiVo Privacy Policy is published on the World Wide Web at [www.tivo.com/privacy](http://www.tivo.com/privacy). We have printed it here for your convenience, but we encourage you to check the web site or call us for a copy of the current Privacy Policy.

This Privacy Policy applies to your use of the TiVo service (also known as the TiVo Plus service) and/or the TiVo Basic service, as the case may be. For purposes of convenience only, the TiVo service (also known as the TiVo Plus service) and the TiVo Basic service are each referred to individually as the “TiVo service” in this Privacy Policy. Where the Privacy Policy differs depending on the type of service you have, that difference will be noted. Use of your TiVo® Digital Video Recorder (referred to in this Privacy Policy as your “TiVo DVR”) with the TiVo service will signify your acceptance of this Privacy Policy. Thank you for using the TiVo service!

### SUMMARY OF THE TIVO PRIVACY POLICY

TiVo knows how important personal privacy is to you, so we have designed our system and established strict policies to help protect the privacy of your Personally Identifiable Viewing Information. In summary, we want you to know that:

- The TiVo DVR collects certain types of information from its users, including Anonymous Viewing Information, Diagnostic Information, Commerce Information, and Service Information (each as defined below).
- TiVo has no way to access any of your Personally Identifiable Viewing Information (as defined below) from your TiVo DVR without your prior consent. Absent your consent, TiVo has no way of knowing what shows you—as an individual or household—have

watched, recorded, or rated with “Thumbs Up” or “Thumbs Down.”

NOTE: If your TiVo DVR is receiving the TiVo Basic service, you may not be able to consent to TiVo’s collection of your Personally Identifiable Viewing Information from that TiVo DVR.

- TiVo does collect Anonymous Viewing Information; that is, information about viewing choices made while using your TiVo DVR, but that does not identify you as an individual or household. In other words, there is no personally identifiable information associated with your Anonymous Viewing Information that could identify the Anonymous Viewing Information as coming from you or your household.
- TiVo also collects Diagnostic Information from a small number of randomly sampled TiVo DVRs for quality control purposes. If you subscribe to the TiVo Plus service and don’t want your Anonymous Viewing Information and Diagnostic Information used in any way, simply tell us by writing to us or calling us at 1-877-367-8486. NOTE: If your TiVo DVR is receiving the TiVo Basic service, you may not opt out of TiVo’s collection of Anonymous Viewing Information or Diagnostic Information from that TiVo DVR; however, you are not required to provide TiVo with any Contact Information (as defined below) with respect to that TiVo DVR.
- If you affirmatively elect to engage in a commercial transaction such as by responding to an advertisement or promotion, TiVo will collect and disclose your Commerce Information (as defined below) to the commerce partner fulfilling the transaction. NOTE: If your TiVo DVR is receiving the TiVo Basic service, you may not be able to engage in commercial transactions from that TiVo DVR.
- If you affirmatively elect to use the Online Scheduling feature of the TiVo Plus service, TiVo will collect the Personally Identifiable Viewing Information associated with fulfillment of your individual

request(s). Use of the Online Scheduling feature, however, does not change your privacy preferences with respect to viewing choices made in the privacy of your household. NOTE: If your TiVo DVR is receiving the TiVo Basic service, you may use the Online Scheduling feature on that TiVo DVR.

- TiVo intends to make available new services in the future. These services will be governed by the privacy policies of the respective service providers.
- NOTE TO TIVO BASIC SERVICE CUSTOMERS: If your TiVo DVR is receiving the TiVo Basic service, you may not (i) be able to opt out of our collection of Anonymous Viewing Information and Diagnostic Information from that TiVo DVR, (ii) opt out of your receipt of communications we send you in the event you provide us with Contact Information (though you are not required to provide us with any Contact Information as to that TiVo DVR), or (iii) be able to change your privacy preferences to allow TiVo to collect Personally Identifiable Viewing Information from that TiVo DVR.
- NOTE TO CUSTOMERS WITH MORE THAN ONE TIVO DVR: Generally, TiVo will cause all of all the TiVo DVRs on your account receiving the TiVo Plus service to have the same “opt” status. See Sec. 2.9 of the Privacy Policy for further details.

## TIVO PRIVACY POLICY

Please read this Privacy Policy carefully. It provides important information on how your privacy is protected when using the TiVo service.

In order to provide you with a better, more satisfying television experience, TiVo Inc. (“TiVo”) collects and uses certain types of information, as described in this Privacy Policy. The User Information (defined below) you provide to the TiVo Digital Video Recorder (referred to in this Privacy Policy as your “TiVo DVR”) in your house and to us at TiVo enables your TiVo DVR to select programs you want it

to record and, if you are TiVo Plus service user, to suggest programs you might enjoy.

By using your TiVo DVR and the TiVo service, you consent to the provisions of this Privacy Policy including the privacy preferences set forth in Section 4.1. This Privacy Policy explains our commitments to your privacy in the following areas:

**1 Our User Information Definitions.** In discussing the kind of information TiVo collects, it is important to distinguish between anonymous information and other information that specifically identifies you or your household. Too often, people refer to “personal information” or “personally identifiable information” without really making clear what they mean. TiVo has developed the following definitions to help clarify this important issue. We use “User Information” as a general term that refers to any information relating to you or your use of the TiVo service. The following are more specific types of User Information.

**1.1 “Account Information”** means information about you and your TiVo DVR, including your Contact Information (defined below) and other information linked to your Contact Information such as the model and Service Number of your TiVo DVR, your ZIP code, software version used, your TV programming source (cable, satellite or an antenna), the type of cable hook-up (digital or analog) and level of TiVo service (TiVo Basic, TiVo Plus, premium services, etc.), privacy preferences, and the cable or satellite box model that you use. You provide us with this information when (a) you set up your TiVo DVR with TiVo Basic service or (b) when you register as a user of the TiVo Plus service. This Service Information (defined below) is sent to TiVo on an ongoing basis to enable TiVo to provide the TiVo service to your TiVo DVR. Account Information also includes information we may receive about you in a communication from you or a third party. Account Information does not include any Personally

Identifiable Viewing Information, or Anonymous Viewing Information, as defined below.

**a “Contact Information”** means information that allows someone to identify or contact you, including, for example: your name, address, telephone number, and e-mail address. Contact Information is a subset of Account Information and is thus linked to your TiVo DVR’s Service Number. Your ZIP code by itself, while part of your address, is not Contact Information because your ZIP code alone does not allow someone to identify or contact you. NOTE: If your TiVo DVR is receiving the TiVo Basic service, you are not required to provide TiVo with any Contact Information from that TiVo DVR.

**b “Service Information”** means information necessary for TiVo to provide service to your TiVo DVR. Examples of Service Information include your software version number, your TV programming source, level of service, and the success status of the last attempted service connection (e.g., periodic call). This information is always transmitted to TiVo when connected to the TiVo servers.

**1.2 “Personally Identifiable Viewing Information”** means information about the viewing choices that you and those in your household make while using your TiVo DVR, if that information is linked to or associated with your Account Information. Your TiVo DVR stores your viewing information so that it may recommend viewing choices and personalize your viewing experience. We have worked very hard to design our system to ensure that no Personally Identifiable Viewing Information may be sent to TiVo without your express consent. If you use the TiVo Plus service, you may choose to consent to TiVo’s collection of Personally Identifiable Viewing Information by changing your privacy preferences as provided in Section 4.1. NOTE: If your TiVo DVR is receiving the TiVo Basic

service, you may not be able to consent to TiVo’s collection of Personally Identifiable Viewing Information from that TiVo DVR.

**1.3 “Anonymous Viewing Information”** means information about viewing choices that you and those in your household make while using your TiVo DVR, but is not associated with or linked to any Contact Information. Your TiVo DVR sends Anonymous Viewing Information to TiVo on an ongoing basis. This information allows TiVo to know that a TiVo service user from a particular ZIP code watched certain programming but we are unable to associate those viewing choices with you. If you use the TiVo Plus service, you may request that TiVo block the collection of Anonymous Viewing Information from your TiVo DVR as described in Section 4.1. NOTE: If your TiVo DVR is receiving the TiVo Basic service, you may not opt out of TiVo’s collection of Anonymous Viewing Information from that TiVo DVR.

**1.4 “Diagnostic Information”** means a log file containing detailed information about the operation of your TiVo DVR, such as memory consumption, user interface response time, disk space, enclosure temperature, and enclosure fan speed. Diagnostic Information logs contain your TiVo DVR’s Service Number and are thus associated with your Account Information. If you use the TiVo Plus service, you may request that TiVo block the collection of Diagnostic Information logs from your TiVo DVR as described in Section 4.1. NOTE: If your TiVo DVR is receiving the TiVo Basic service, you may not opt out of TiVo’s collection of Diagnostic Information from that TiVo DVR.

**1.5 “Commerce Information”** means personally identifiable information that enables a commerce partner to fulfill your request to participate in a promotion or transaction. From time to time, TiVo may present special offers and/or enable you to purchase goods and services from TiVo, or third party advertisers or promoters. You

would be informed of such offers on screen while using the TiVo Plus service. Should you decide to take advantage of such an offer or engage in a transaction, TiVo will collect and communicate your relevant Contact Information and your interest in a specific offer or transaction to the commerce partner sponsoring the promotion or transaction. In addition to fulfilling your request, that commerce partner may also use your Commerce Information to send you other information in which you might be interested consistent with its own privacy policies. This information is collected and disclosed by TiVo only upon your affirmative response to an offer. NOTE: Depending on your level of TiVo service and the model of your TiVo DVR, such features may not be available to you.

**1.6 “Feature-Generated Request Information”** means personally identifiable information about television programming or other content that you request your TiVo DVR to record or identify using a feature offered by TiVo, such as Online Scheduling, or a third party content delivery service. Should you decide to use such a feature or service, TiVo will collect the Personally Identifiable Viewing Information associated with the fulfillment of your recording (or scheduling conflict) request. TiVo may use this Personally Identifiable Viewing Information as described in Section 2.2. If the feature or service is offered by a third party, TiVo will communicate to the third party the necessary Personally Identifiable Viewing Information to complete the transaction. The use of this information will be governed by the privacy policy of the respective third party service provider. TiVo collects this information only upon your affirmative choice to use a particular feature. NOTE: Depending on your level of TiVo service and the model of your TiVo DVR, such features may not be available to you.

## 2 Use of User Information

**2.1 Account Information.** We use your Account Information to establish and provide you with your TiVo service, provide the necessary resources to your TiVo DVR, offer you new services when they are available, and other legitimate business purposes. For example, we use your e-mail address to communicate with you regarding new services, and to exclude you from offers for services you may already have. If you use the TiVo Plus service, we also use such information to create your account with TiVo and to bill you for the TiVo Plus service. Knowing your ZIP code, programming source, and information about your cable or satellite box model allows us to determine which programming information (e.g., times and channels of programs) to send to your TiVo DVR.

We use your Account Information to communicate with you about upcoming features in the TiVo service or promotions that might interest you. If you use the TiVo Plus service, you may opt not to receive communications in the future as explained in Section 4.1. We also use your Account Information in aggregate form (i.e., excluding any Contact Information) to generate demographic profiles of our users as a whole to assist us to, for example, identify future users of the TiVo service or other services. NOTE: If your TiVo DVR is receiving the TiVo Basic service, and you choose to provide us with Contact Information, you may not opt out from receiving communications in the future. However, you are not required to provide us with any Contact Information so long as that TiVo DVR is receiving the TiVo Basic service.

**2.2 Personally Identifiable Viewing Information.** Your TiVo DVR uses your viewing information to tune, schedule, and record programs. If you have the TiVo Plus service, your TiVo DVR also uses your viewing information to recommend programs for you. Your TiVo DVR may also use this viewing information to select advertisements or other promotions for you that you may be

interested in. TiVo does not receive the Personally Identifiable Viewing Information stored on your TiVo DVR without your consent. Absent your consent, no “tag” is added to the Anonymous Viewing Information transmitted from your TiVo DVR to TiVo that would enable TiVo to identify the TiVo DVR from which it came.

If you expressly choose to allow TiVo to collect your Personally Identifiable Viewing Information, TiVo may use this information for surveys, audience measurement, and other legitimate business purposes. NOTE: If your TiVo DVR is receiving the TiVo Basic service, you may not be able to allow TiVo to collect your Personally Identifiable Viewing Information from that TiVo DVR.

**2.3 Anonymous Viewing Information.** We use Anonymous Viewing Information to develop reports and analyses about what programs, advertisements, and types of programming our users (as a whole or in subgroups) watch or skip, for other programming or advertising research, and for any other legitimate business purpose. For example, we use Anonymous Viewing Information to develop inferences that people who watch show X also watch show Y. We also use Anonymous Viewing Information to help with the investigation of technical issues with our systems.

**2.4 Diagnostic Information.** TiVo collects Diagnostic Information logs from a small number of randomly sampled TiVo DVRs for quality control and technical troubleshooting purposes.

**2.5 Commerce Information.** TiVo uses Commerce Information as described in Section 1.5.

**2.6 Feature Generated Requests Information.** TiVo uses Feature Generated Request Information for the purposes described in Section 1.6.

**2.7 Activating the TiVo Plus Service.** When you activate a TiVo DVR that was receiving TiVo Basic service to receive the TiVo Plus

service, and it is the only TiVo DVR on your account receiving the TiVo Plus service, your TiVo DVR will provide Anonymous Viewing Information and Diagnostic Information to TiVo. You may opt in to the collection of Personally Identifiable Viewing Information or opt out of TiVo’s collection of Anonymous Viewing Information and Diagnostic Information pursuant to the terms and conditions of this Privacy Policy.

**2.8 Reverting to the TiVo Basic Service.** If you decide to terminate your TiVo Plus service, and your TiVo DVR is eligible to receive the TiVo Basic service, that TiVo DVR will retain the opt status that it had when the TiVo Plus service is terminated. NOTE: Your TiVo DVR may not be eligible to receive the TiVo Basic service. Consult your User’s Guide to determine if your TiVo DVR is eligible to receive the TiVo Basic service.

**2.9 TiVo Customers with Multiple TiVo DVRs.** TiVo will cause all of the TiVo DVRs on your account to have the same “opt” status. This means that if you opt out of our collection of Anonymous Viewing Information and Diagnostic Information from one TiVo DVR, we will not collect Anonymous Viewing Information and Diagnostic Information from any of the TiVo DVRs. If you request that TiVo collect your Personally Identifiable Viewing Information from one TiVo DVR, TiVo will collect Personally Identifiable Viewing Information from all of the TiVo DVRs on your account.

### 3 Disclosure of User Information

**3.1 Generally.** We disclose aggregated Account Information and aggregated Anonymous Viewing Information and any reports or analyses derived therefrom, to third parties including advertisers, broadcasters, consumer and market research companies and other organizations.

**3.2 Manufacturing and Service Provider Partners.** In certain instances we will disclose to our hardware manufacturing partners and service provider partners (for example DIRECTV) the Account Information of users who have a DVR made by that manufacturing partner or receive a service from that service provider partner. However, TiVo contractually binds our manufacturing and service provider partners to comply with the provisions of this Privacy Policy. Our manufacturing and service provider partners are legally liable for misuse of User Information.

**3.3 Contractors and Third Party Service Providers.** We use contractors to help with some of our operations. Some of these contractors will have access to our databases of User Information on a temporary basis for specific tasks. TiVo also uses third parties to help with certain aspects of its operations, which may require disclosure of your User Information to them. For example, TiVo may use a third party to communicate with you (via telephone, e-mail, or letter) about your TiVo service or upcoming features or services, to mail rebate checks, to generate demographic profiles based on User Information of current TiVo service users, and to perform other work that we may need to outsource. If you are a TiVo Plus service user, TiVo may additionally use a third party to process and collect payment for your TiVo Plus service via your credit card. TiVo contractually binds these contractors and third parties to use your User Information only as necessary to perform the services they are asked to perform. Such contractors and third parties are legally liable for misuse of User Information.

**3.4 The “Corporate Family.”** Although TiVo currently does not have a parent company, any subsidiaries (other than TiVo International, Inc. and TiVo UK Ltd., which provides TiVo service in the United Kingdom), joint ventures, or other companies under a common control (collectively, “affiliates”), it may in the future. TiVo may

share some or all of your User Information with these affiliates, in which case TiVo will require its affiliates to honor this Privacy Policy. If another company acquires TiVo, or acquires assets of TiVo that comprise or include your User Information, that company will possess the User Information collected by TiVo and it will assume the rights and obligations regarding your User Information as described in this Privacy Policy.

**3.5 Commerce Partners.** When you elect to participate in a special offer or engage in a transaction with TiVo or a third party advertiser or promoter, TiVo will collect and disclose your Commerce Information to the commerce partner sponsoring and/or fulfilling the promotion. In addition to fulfilling your request, that commerce partner may also use your Commerce Information to send you other information in which you might be interested consistent with its own privacy policies. This information is disclosed only upon your affirmative response to an offer. NOTE: Depending on your level of TiVo service and the model of your TiVo DVR, such features may not be available to you.

**3.6 Factors Beyond Our Control.** Your privacy is very important to us. Due to factors beyond our control, however, we cannot fully ensure that your User Information will not be disclosed to third parties. For example, we may be legally obligated to disclose User Information to local, state or federal governmental agencies or third parties under certain circumstances (including in response to a subpoena), or third parties may circumvent our security measures to unlawfully intercept or access your User Information.

## 4 Your Choices Regarding User Information

**4.1 Limits on TiVo’s Collection, Use, and Disclosure of User Information.** The default privacy preferences, to which you hereby consent, do not allow TiVo to collect Personally Identifiable Viewing

Information, but do allow TiVo to collect, use, and disclose Anonymous Viewing Information and Diagnostic Information logs, in addition to Account Information, in manners consistent with this Privacy Policy. Commerce Information is collected, used, and disclosed only upon your affirmative response to an offer. Feature-Generated Request Information is collected, used, and disclosed only upon your affirmative choice to use a particular feature. NOTE: Depending on your level of TiVo service and the model of your TiVo DVR, such features may not be available to you.

Even though Anonymous Viewing Information and Diagnostic Information do not include any Contact Information, if your TiVo DVR is receiving the TiVo Plus service, you may request that TiVo block the collection of Anonymous Viewing Information and Diagnostic Information from your TiVo DVR. If your TiVo DVR is receiving the TiVo Plus service, you may further opt not to receive communications that we send to you based on your Account Information; provided, however, that we will still send you communications TiVo deems important regarding your TiVo Plus service. If you make this choice, you understand that we will not be able to inform you about any upcoming features, improvements, or promotions regarding your TiVo Plus service. In all cases, however, we will collect and use your Account Information (including Service Information) to enable us to provide your TiVo DVR with the TiVo Basic service and the TiVo Plus service. If your TiVo DVR is receiving the TiVo Plus service, you may choose to change your privacy preferences to allow TiVo to collect Personally Identifiable Viewing Information from your TiVo DVR.

If you are a TiVo Plus customer and you would like to change your privacy preferences, you must either (a) send TiVo a signed written request at the address set forth in Section 8.3, or (b) call us at 1-877-367-8486 to request a change. NOTE: Please see Sections 2.7, 2.8,

and 2.9 above for important provisions if you have a TiVo DVR eligible to receive the TiVo Basic service and if you have multiple TiVo DVRs.

**4.2 Review and Update of Account Information.** We believe you have a right to know your Contact Information, billing information, and privacy preferences collected and stored by TiVo and to update or change such information you believe is incorrect. You may make a request by telephone, mail, or via the web (if and when available) to review such information and we will mail you a printout of such information. If you request that certain parts of such information be changed, we will make the changes to the extent commercially practicable. In addition, we will take commercially reasonable steps to propagate those changes to third parties with whom we may have shared such information pursuant to this Privacy Policy.

**4.3 How to Delete Information.** Should you decide to discontinue your TiVo Plus service, you may make that request by telephone or mail and we will suspend billing for the TiVo Plus service. After you discontinue the TiVo service, TiVo will maintain your Account Information only as long as necessary for business purposes. In addition, although we delete your Account Information from our “live” database, your Account Information may remain in our archives and records until they are destroyed. NOTE: If your TiVo DVR is eligible to receive the TiVo Basic service then upon termination of the TiVo Plus service you may elect to continue receiving the TiVo Basic service. In such a case, TiVo may maintain your TiVo Plus service Account Information until such time as your TiVo Basic service is terminated. Consult your User’s Guide to determine if your TiVo DVR is eligible to receive the TiVo Basic service.

**5 Comment Regarding Children.** TiVo feels strongly about protecting the privacy of children and encourages parents to be



involved in the television viewing of their minor children by, for example, limiting the types of content minor children can watch.

- 6 Separate Rules for the TiVo Web Site.** We have a separate privacy policy that covers activities on our web site. However, if you register for TiVo service on the Web, or log in to your account preferences page (when available) to make changes to your account or request services, this Privacy Policy will apply to the User Information you provide to us in those instances. If you use the TiVo web site to access certain features or services such as Online Scheduling, we may institute amendments and modifications to this Privacy Policy addressing the handling of your information in providing you such features or services to which you must agree if you wish to use such features or services.

- 7 Security of User Information.** When you contact us by e-mail or phone regarding your TiVo service, we ask you for certain Account Information—in order to verify your identity—before accepting requests to make changes to your TiVo service. We take these steps to ensure that only you or a household member who knows your Account Information will be able to access or change your User Information.

TiVo uses industry-standard methods such as encryption to secure the communication of viewing information from your TiVo DVR to TiVo. In addition, TiVo uses industry-standard methods of securing its databases of User Information, including the use of firewalls. Except as provided elsewhere in this Privacy Policy, TiVo limits access to User Information databases to those persons in the TiVo organization who have a business need for such access, including servicing your account, informing you of service news and special TiVo offers, or aggregating Account Information or Anonymous Viewing Information for the purpose of conducting research, and targeting new users. However, you should know that no company,

including TiVo, can fully eliminate security risks associated with User Information.

## 8 General

- 8.1 Future Features, Services, and Amendments to this Privacy Policy.** We may add to or upgrade the TiVo service to provide you with new features on an ongoing basis. We may also make available new services in the future. New services will be governed by the privacy policies of the respective service provider. To the extent that any new features or services may require amendments to this Privacy Policy to describe the treatment of User Information, these amendments are effective upon notice to you. In the event that we make a substantial and material change to our treatment of User Information, such as a change in the way that we collect, use, or disclose Personally Identifiable Viewing Information, we will notify you of such planned change and offer you the opportunity to alter your privacy preferences.

- 8.2 Technical Problems.** Even though TiVo has taken significant steps to ensure that your User Information is never collected, used, or disclosed by TiVo except as set forth by this Privacy Policy, technical mistakes are possible. If such a mistake takes place, we will take commercially reasonable steps to correct it.

- 8.3 Contact TiVo.** Our intention is to be diligent in protecting your privacy by strictly following our Privacy Policy. If you would like to make suggestions or find out more about our privacy practices, please call us at 1-877-367-8486 or send us a letter.

Our mailing address is TiVo Inc., ATTN: Privacy Policy, 2160 Gold Street, P.O. Box 2160, Alviso CA 95002-2160.

- 8.4 Entire Agreement.** The term “including” in this Privacy Policy shall mean “including without limitation.” This Privacy Policy

supplements and is incorporated into the TiVo Basic Service Agreement, the TiVo Plus Service Agreement, and any other TiVo service Agreements. This Privacy Policy constitutes the entire agreement, and replaces and supersedes all prior agreements, between you and TiVo concerning the subject matter discussed in this Privacy Policy. Use of your TiVo DVR with TiVo service will signify your acceptance of this Privacy Policy.

BY USING THE TIVO SERVICE, I REPRESENT THAT I HAVE READ AND UNDERSTOOD THIS ENTIRE PRIVACY POLICY AND I AGREE TO ALL THE TERMS OF THIS PRIVACY POLICY AS STATED ABOVE.

TiVo Service Privacy Policy v20040602

## ▶▶ TiVo Service Agreement

### INTRODUCTION

Welcome to TiVo and the TiVo service! This agreement explains the terms and conditions that will apply to your use of the TiVo service, and constitutes a legally binding agreement between you and TiVo Inc. (“TiVo”). By using the TiVo service, you agree to all the terms and conditions in this agreement (“Agreement”).

### THE TIVO SERVICE AND THE PRIVACY POLICY

**1 Terms of Service.** The TiVo logo on your TiVo® Digital Video Recorder (your “TiVo DVR”) means that it can receive the TiVo service offered and provided by TiVo for personal, non-commercial use on a subscription basis. Your activation and continued use of the TiVo service is subject to the terms and conditions of this Agreement. TiVo may at its discretion change the terms of this Agreement. Such changes shall be effective upon notification by TiVo. We encourage you to check [www.tivo.com/privacy](http://www.tivo.com/privacy) or call us for a copy of the current TiVo service agreement. If you are dissatisfied with any changes to this Agreement, you may cancel your use of the TiVo service as provided in Section 14 (“Termination of Service”).

**2 TiVo’s Privacy Policy.** You must provide us with accurate and complete information when you activate your TiVo service. TiVo reserves the right to terminate your account if you give TiVo inaccurate or incomplete information. TiVo respects the privacy of your User Information (as defined in TiVo’s Privacy Policy) and will not disclose any of your User Information except as permitted in TiVo’s Privacy Policy. A copy of TiVo’s Privacy Policy is included in the product manual and the latest version can always be found via our web site at [www.tivo.com/privacy](http://www.tivo.com/privacy). Please read it carefully before using the TiVo service. By using the TiVo service, you agree to the terms and conditions of our Privacy Policy and affirm that you understand the options TiVo provides to you with regard to your User Information. TiVo will notify you of any substantial and material changes to the Privacy Policy and the latest Privacy Policy can always be accessed through our web site at [www.tivo.com/privacy](http://www.tivo.com/privacy).

**3 The TiVo Service.** The TiVo service consists of program guide information and the following features: (a) Season Pass™ - automatically finds and records every episode of a series all season long; (b) WishList™ - finds and records programs that feature your favorite actor, director, team or even topic; (c) Smart Recording - automatically detects program line-up changes for your cable/

satellite provider and adjusts recording times so you don't have to worry about the details; (d) TiVo Suggestions - TiVo can be programmed to suggest and auto-record programs that may match your interests; and (e) Parental Controls-lock channels or set ratings limits based on content. Each of these features is part of the “TiVo service.” The “TiVo service” means these features and any additional features and functionality that TiVo may, at its discretion and from time to time, offer.

**3.1 Network-Enabled Features (includes former Home Media Option features).** You must have a network-enabled TiVo DVR to use any network-enabled features. (A network-enabled TiVo DVR has an established network connection through the TiVo DVR's built-in USB port, Ethernet, or wireless adapter; is running a TiVo software version that supports home networking; and is subscribed to the TiVo service.) Some features require a personal computer and installation of the TiVo Desktop application ([www.tivo.com/desktop](http://www.tivo.com/desktop)) on your networked computer. Some features require a broadband connection to the Internet through the home network. Multi-Room Viewing requires two network-enabled TiVo DVRs that are enabled for the Multi-Room Viewing feature.

Not all TiVo DVRs are able to use network-enabled features. Moreover, even among Series2 DVRs, the multi-room viewing feature may not permit particular DVRs to transfer content among one another due to incompatibility issues among manufacturers or copy protection mechanisms. Please visit our TiVo Home Media Features FAQs at [www.tivo.com/mediafaq](http://www.tivo.com/mediafaq) for details.

The TiVo service enables you to schedule recordings on your network-enabled TiVo DVR by using the Internet. The terms and conditions governing the use of the Online Scheduling feature are contained in the TiVo Website Terms and Conditions, available at [www.tivo.com/webpolicy](http://www.tivo.com/webpolicy). Please note that when you purchase a

TiVo service subscription, the Online Scheduling feature is always turned on. The Online Scheduling feature cannot be turned off unless this Agreement is terminated. This means that if you purchase your network-enabled TiVo DVR with Product Lifetime Service from another individual, the seller will be able to schedule recordings to the DVR until you contact TiVo and have the TiVo service subscription for the DVR transferred to your own account.

**3.2 Multi-Room Viewing.** You must have at least two (2) TiVo Series2 DVRs each with a TiVo service subscription to take advantage of the Multi-Room Viewing feature. The Multi-Room Viewing feature is intended solely to enable the transfer of content among DVRs within a single household. You may transfer content only among DVRs on the same TiVo account and only among DVRs on the same network subnet. For example, if one DVR in your home resides on your network at 192.168.1.5, any DVR used for Multi-Room Viewing must reside on that same network, having an IP address of 192.168.1.x. Any DVR that resides on a different network, such as a DVR with an IP address of 192.168.2.5, is not permitted to participate in Multi-Room Viewing.

In addition, you may only transfer content among ten (10) DVRs on a single TiVo account within your household. Unauthorized transfers or distribution of copyrighted works outside of your home may constitute an infringement of the rights of copyright holders. TiVo reserves the right to terminate the TiVo service accounts of users who transfer or distribute content in violation of this Agreement – either to an unauthorized device or otherwise.

Please note that when you subscribe to the TiVo service, the Multi-Room Viewing feature is turned on by default. You may turn this feature off by using Manage My Account at [www.tivo.com/manage](http://www.tivo.com/manage).

**3.3 Access to PC-based Media.** Access to PC-based media via your TiVo is enabled through the TiVo Desktop application that is available at [www.tivo.com/desktop](http://www.tivo.com/desktop).

The TiVo Desktop application itself does not contain any security mechanisms. If your home network has Internet access but does not include a firewall, information on your home network can be easily seen by anyone on the Internet. Most firewall products stop all traffic originating from the Internet, protecting your systems from malicious network attacks or curious browsers interested in the files you have on your computer. A firewall can be installed to protect an individual computer or to protect a whole home network. Because the TiVo Desktop application makes media you publish to your DVR available on your home network, TiVo recommends that you install a firewall that protects your home network. If your network does not include a firewall, Internet users may be able to access media on your network or even information on your computer, such as personal financial data. TiVo strongly suggests you take steps to protect your home network from unwanted intruders. Routers and home gateways, available at most electronics stores, may include a firewall meant to protect your home network.

Some third-party PC-based applications may also enable access to PC-based media through your TiVo. Such applications may or may not include built-in security mechanisms. TiVo is not responsible for and does not warrant the use, behavior, or performance of such applications.

Network-enabled features are intended solely to enable you to access media that resides on your home computer for personal, noncommercial use. The feature is not intended to be used for listening to or viewing music, photographs, video, or other media from third party sources including, but not limited to, Internet streaming, webcasting, peer-to-peer or any other form of

transmission of content. Viewing or listening to media from third party sources could subject your DVR and/or home computer to harm and may infringe the copyrights of third parties.

**3.4 Note About Privacy and TiVo Desktop Application.** Please review TiVo's Privacy Policy located at [www.tivo.com/privacy](http://www.tivo.com/privacy), which is incorporated herein by reference. Unless you have changed your privacy preferences, when you use the features enabled by the TiVo Desktop application, TiVo collects anonymous information about the use of these features, but that does not identify you as an individual or household. This anonymous information is treated the same as Anonymous Viewing Information under TiVo's Privacy Policy. In other words, there is no personally identifiable information associated with this data that could identify the data as coming from you or your household.

**4 We Don't Control Third-Party Content!** The TiVo service gives you the ability to access audio, video, and other media over which TiVo exercises no editorial or programming control ("Third Party Content"). You understand that: (a) TiVo does not guarantee the access to or the ability to record, display, or transfer any particular program; (b) programming is not under TiVo's control; (c) programming providers may restrict or limit the ability to record, display, view or transfer particular programs by using a variety of copy protection mechanisms; (d) content providers may restrict or revoke access to their content at any time; (e) TiVo is not responsible for and has no editorial control over any Third Party Content; and (f) TiVo has no control over the distribution of such content. You agree that TiVo will have no liability to you, or anyone else who uses your account and TiVo DVR, with regard to any Third Party Content.

**5 Third Party Content Is Copyrighted.** You also understand that the Third Party Content is the copyrighted material of the third party

that supplies it, is protected by U.S. copyright law and other applicable laws, and may not be reproduced, used to prepare derivative works, distributed, performed publicly or displayed publicly without the written permission of the third party that supplied it, except to the extent allowed under the “fair use” provisions of the U.S. copyright laws, other limitations on exclusive copyrights in the U.S. copyright laws, or comparable provisions of foreign laws. You hereby agree and declare that any and all Third Party Content accessed using your TiVo DVR or TiVo software are for personal, non-commercial use and that the TiVo DVR or TiVo software will not be used for Third Party Content to be copied or displayed before a public audience without authorization from the appropriate rights holder. Unauthorized copying or distribution of copyrighted works may constitute an infringement of the copyright holders’ rights. TiVo reserves the right to terminate the accounts of users of any TiVo software who infringe the copyrights of others.

- 6 Changes to Your TiVo Service.** TiVo may at its discretion and from time to time change, add, or remove features and functionality of the TiVo service or the TiVo DVR without notice. If you are dissatisfied with any such changes to the TiVo service, you may immediately cancel your use of the TiVo service as provided in Section 14 (“Termination of Service”). TiVo reserves the right to discontinue one, some, or all of the features of the TiVo service you receive at any time at its discretion. TiVo may at its discretion discontinue the provision of software updates to certain TiVo DVRs. This means that while other TiVo DVRs may receive continued software updates and functionality; TiVo is not required to provide such updates to your TiVo DVR. Additionally, the level of service TiVo provides may not be the same on each TiVo DVR; a given TiVo DVR may support different features and functionality, and TiVo is

under no obligation to provide all features and functionality to your TiVo DVR.

## ACTIVATING AND USING THE TIVO SERVICE

- 7 Eligible Subscribers.** You must be at least 18 years of age to assume the responsibilities of this Agreement. Minors may use the TiVo service only if one of their parents or legal guardians assumes the responsibilities of this Agreement and thereby assumes full responsibility for the minor's use of the TiVo service.
- 8 Subscription Fees.** You agree to pay your subscription fee in advance. Your subscription fee will cover the TiVo service received via a TiVo DVR authorized by TiVo to enable the TiVo service. You have a choice of subscription payment options that may change over time. You may switch payment options at the end of each period. If for any reason you need to reactivate your subscription, you may be charged a reactivation fee. If you are signing up for the TiVo service under a promotional subscription fee, some additional restrictions may apply. If you have multiple TiVo service subscriptions under the same account information, additional terms and conditions may apply. Whatever your subscription payment option, your subscription fee does not include any services, features or functionality other than the TiVo service.
- 9 Telephone Access and Possible Charges.** The TiVo service is accessed through a standard telephone line and is available as a local call in most areas. In some areas, local and long- distance toll charges may apply. The TiVo service may also be available through the Internet with a broadband connection. However, TiVo does not make any assurances about the availability or functionality of the TiVo service over a broadband connection. Firewall protection is strongly advised for any broadband Internet connections to protect your TiVo DVR from viruses and other harmful things. You are responsible for

any telephone or broadband service charges incurred as a result of using or accessing the TiVo service and acknowledge and agree that you shall be solely responsible for all disputes with any telephone company or Internet service provider related to the same.

**10 Payment Authorization.** If you choose a subscription option with recurring payments, you agree that TiVo may automatically charge the subscription fee to your credit or charge card at the beginning of each period. Your TiVo service access will not be established until TiVo has verified that the credit card information you provide us for payment is accurate and that your credit card account is in good standing. TiVo may, as necessary, extend the expiration date of your credit card in order to ensure continued service. TiVo may, at its discretion, change the TiVo service fees from time to time, and charge fees (which TiVo may also change) for features and functionalities that are not a part of the TiVo service. TiVo will notify you 30 days in advance of any fee changes or new fees; you may obtain the fees currently in effect at any time by contacting TiVo Customer Support at 1-877-367-8486. TiVo reserves the right to suspend or terminate your TiVo service without notice upon rejection of any credit card charges or if your card issuer (or its agent or affiliate) seeks return of payments previously made to TiVo when TiVo believes you are liable for the charges. You agree to pay a late charge on all amounts due which remain unpaid for 30 days. The late charge will equal 1.5% of the past due amount, or the highest rate allowed by law, per month until paid. Such rights are in addition to and not in lieu of any other legal right or remedies available to TiVo. TiVo reserves the right to refer your account to a third party for collection in the event of an ongoing default.

**11 Using the TiVo Service.** You may access and use the TiVo service only with a TiVo DVR that is authorized to receive the TiVo service and you agree not to tamper with or otherwise modify your TiVo

DVR. Among other things, this means that you may access and use the program guide information only on a TiVo DVR that is authorized to receive it. The TiVo service is provided for your personal, non-commercial use, and may not be resold, in whole or in part. Except as expressly provided in this Agreement, you may not transfer the TiVo service. By using the TiVo service, you agree to receive all software updates and upgrades that TiVo sends to your TiVo DVR. If your TiVo DVR accesses the TiVo service (regardless of your payment or subscription status), you acknowledge and agree that you are a user of the TiVo service and are bound by the terms of this Agreement.

**12 Advertising and Promotions.** The TiVo service is advertiser supported. The hard disk drive of your TiVo DVR contains reserved space in addition to the advertised recording capacity. TiVo reserves the right to send content (including advertising and promotional material) to such reserved portions of your TiVo DVR's hard disk drive as part of the TiVo service. In order to send such content, you agree that TiVo may tune your TiVo DVR to a particular channel at a particular time.

**13 Definition of Product Lifetime Subscription.** A "Product Lifetime Subscription" to the TiVo service covers the life of the TiVo DVR you buy—not the life of the subscriber. The Product Lifetime Subscription accompanies the TiVo DVR in case of ownership transfer. The subscription remains in effect if the TiVo DVR needs to be repaired or replaced due to a malfunction (see manufacturer or retailer warranty details) or even if you upgrade your TiVo DVR to increase storage capacity (though such upgrades, if not performed by a TiVo-authorized third party, will void the warranty on your TiVo DVR and constitute a breach of this Agreement). Because a Product Lifetime Subscription is linked to a particular TiVo DVR, you may not transfer it to any other TiVo DVR unless all the following conditions apply: (a) the TiVo DVR is being replaced pursuant to the

manufacturer's or retailer's warranty; and (b) the TiVo DVR being replaced is of the same make and model as the replacement TiVo DVR; and (c) you provide us with a proof of replacement by the manufacturer or retailer. TiVo reserves the right to charge you a fee to transfer Product Lifetime Service from a TiVo DVR being replaced to a replacement TiVo DVR. Each TiVo DVR purchased requires its own TiVo service subscription and activation. Of course, hardware products don't last forever and their lifespan will vary. TiVo makes no warranties or representations as to the expected lifetime of the TiVo DVR (aside from the manufacturer's or retailer's warranty).

**14 Termination of Service.** You may terminate your account, this Agreement, and your right to use the TiVo service, at any time and for any reason or no reason, by contacting TiVo Customer Support at 1-877-367-8486. The TiVo service will be terminated within 24 hours after your call and unused subscription fees are nonrefundable. Notwithstanding anything to the contrary in this Agreement, TiVo retains the absolute right to immediately suspend or terminate your account, and terminate this Agreement, if the charges to your credit card for the fees described in Section 8 ("Subscription Fees") and Section 10 ("Payment Authorization") are refused for any reason, if you breach any provision in this Agreement, if you misuse the TiVo service, and/or if you alter your TiVo DVR or use the TiVo service in such a manner as to infringe upon the intellectual property rights of TiVo or any third party. In addition, TiVo reserves the right to terminate your account and this Agreement for any other reason or no reason if TiVo gives you at least 30 days advance notice of such termination. Upon any such termination of your account, you will remain obligated to pay all outstanding fees and charges relating to your use of the TiVo service before termination.

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## GENERAL

**20 Miscellaneous.** This Agreement will be governed by the laws of the State of California as such laws apply to agreements between California residents performed entirely within California. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement. You and TiVo agree to submit to the exclusive personal jurisdiction of the courts located within the county of Santa Clara, California. If any provision of this Agreement is invalid or unenforceable under applicable law, such provision will be deemed modified to the extent necessary to render such provision valid and enforceable and the other provisions of this Agreement will remain in full force and effect. The official text of this Agreement or notice submitted hereunder shall be in English. In the event of any dispute concerning the construction or meaning of this Agreement, reference shall be made only to this Agreement as written in English and not to any translation into another language. This document represents the entire agreement governing your use of the TiVo service and supersedes any prior or contemporaneous written or oral statements by TiVo or its representatives or resellers. TiVo's failure to enforce any of the terms of this Agreement shall not constitute a waiver or relinquishment of TiVo's right to do so at any time. Sections 8 ("Subscription Fees"), 9 ("Telephone Access and Possible

Charges"), 10 ("Payment Authorization"), 11 ("Using the TiVo Service"), 15 ("Title to Software and Intellectual Property"), 16 ("Open Source Software"), 17 ("Indemnity"), 18 ("Warranty Disclaimer"), 19 ("Limitations of TiVo's Liability"), and 20 ("Miscellaneous") shall survive any termination or expiration of this Agreement.

BY USING THE TIVO SERVICE, I REPRESENT THAT I HAVE READ AND UNDERSTOOD THIS ENTIRE AGREEMENT AND I AGREE TO ALL THE TERMS OF THIS AGREEMENT AS STATED ABOVE.

TiVo Service Agreement v20040608

## ►► HUMAX DVR Limited Warranty

We thank you for having bought this Humax product and hope you will enjoy it for many years. In order to avoid any unnecessary inconvenience on your part, we suggest reading the instruction manual carefully before contacting our customer care department. Also keep the original box and packing material in case you need to return or repair your product.

### LIMITED 90 DAYS WARRANTY

Humax warrant the product to be free from defects in materials and workmanship, Humax warrant this product against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period Humax will repair or replace a defective product or part, at its discretion, with a new or refurbished product or part without charge to you. You are responsible for all shipping and insurance charges for the unit to the Authorized Service Center. Upon receipt we will at our option exchange the unit with a new or refurbished unit.

### LIMITED ONE (1) YEAR WARRANTY

Humax warrants the product to be free from defects in materials and workmanship, Humax warrants this product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period Humax will repair or replace a defective product or part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of the original retail purchase you shall pay labor charges involved in the replacement. You are responsible for all shipping and insurance charges for the unit to the Authorized Service Center. Upon receipt we will at our option exchange the unit with a new or refurbished unit.

### CONDITIONS

1. This warranty will be granted only when the original invoice or sales receipt (indicating the date of purchase, product type and dealer's name) is presented together with the defective product. Humax reserves the right to refuse free-of-charge warranty service if the above document cannot be presented or if the information contained in it is incomplete or illegible.
2. This warranty will not reimburse nor cover the damage resulting from adaptations or adjustments which may be made to the product, without the prior written consent of Humax, in order to conform to the national or local technical or safety standards in force in any country other than the ones for which the product was originally designed and manufactured.
3. This warranty will not apply if the type or serial number on the product has been altered, deleted, removed or made illegible.
4. This warranty covers none of the following:
  - Periodic maintenance and repair or replacement of parts due to normal wear and tear;
  - Any adaptation or changes to upgrade the product from its normal purpose as described in the instruction manual, without the prior written consent of Humax;
  - Transport costs, home service transport cost and all risks of transport relating directly or indirectly to the guarantee of the product;
  - Damage resulting from: (i) misuse, including but not limited to (a) failure to use the product for its normal purpose or in accordance with Humax' instructions on the proper use and maintenance, and (b) installation or use of the product in a manner inconsistent with the technical or safety standards in force in the country where it is used and (c) improper or incorrect installation of software; (ii) repair done

by non-authorized service stations or dealers, or the customer himself; (iii) accidents, lightning, water, fire, improper ventilation or any cause beyond the control of Humax; (iv) defects of the system into which this product is incorporated.

5. This warranty does not affect the consumer's statutory rights under applicable national laws in force, nor the consumer's rights against the dealer arising from their sales/purchase contract.

6. THERE ARE NO EXPRESS WARRANTIES OTHER THOSE LISTED AND DESCRIBED ABOVE. AND NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AFTER THE EXPRESS WARRANTY GIVEN BY ANY PERSON, FIRM, OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON Humax.

7. Humax shall not be liable for loss of revenue or profits, failure to realize saving or other benefits, or any other special, incidental or consequential damages caused by the use, misuse or inability to use this product, regardless of the legal theory on which the claim based, and even if Humax has been advised of the possibility of such damages. Nor shall recovery of any kind against Humax be greater in amount than the purchase price of the product sold by Humax and causing the alleged damage. Without limiting the foregoing, purchaser assumes all risk and liability for loss, damage to purchaser and purchaser's property and to others and their property arising out of the use, misuse or inability to use this product sold by Humax not caused directly by the negligence of Humax. This limited warranty shall not extend to anyone other than the original purchaser of this product, is nontransferable and states your exclusive remedy.

Where states do not allow limitation on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you. In this case this warranty gives specific legal rights and you may also have other rights which vary from state to state.

To obtain warranty service, please contact HUMAX at:

HUMAX USA, Inc.

3601 West Garry Ave

Santa Ana, CA 92704

Tel: (866) 486-2987

E-mail: [Support@HumaxUSA.com](mailto:Support@HumaxUSA.com)

## ►► FCC Information

This equipment complies with Part 68 of the FCC Rules and the requirements adopted by ACTA. On the back of this equipment is a label that contains a product identifier in the format US:AAAEQ##TXXXX. If requested, this information must be provided to your telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

The REN is used to determine the number of devices that may connect to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact your local telephone company. For product approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without the decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If your HUMAX DVD RECORDER causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this HUMAX DVD RECORDER does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

If trouble is experienced with this unit, for repair or warranty information, please contact customer service at the address and phone listed below. If the equipment is causing harm to the network, the telephone company may request that you disconnect the equipment until the problem is resolved.

**DO NOT DISASSEMBLE THIS EQUIPMENT.** It does not contain any user serviceable components.

We recommend the installation of an AC surge arrester in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lighting transients, are very destructive to customer terminal equipment connected to AC power sources.

HUMAX USA, Inc.  
3601 West Garry Ave  
Santa Ana, CA 92704  
Tel: (866) 486-2987

## ►► Safety Instructions

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions of which you should be particularly aware. Please read these instructions before operating the equipment and save them for future reference.

1. Read Instructions—All the safety and operating instructions should be read and understood before the appliance is operated.
2. Retain Instructions—The safety and operating instructions should be retained for future reference.
3. Heed Warnings—All warnings on the appliance and in the operating instructions should be followed.
4. Follow Instructions—All operating and use instructions should be followed.
5. Water and Moisture—The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Tilt/Stability—All televisions must comply with recommended international global safety standards for tilt and stability properties of their cabinet design. Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet, which could ultimately overturn the product. Also, do not endanger yourself, or children, by placing electronic equipment/toys on top of the cabinet.

Such items could unexpectedly fall from the top of the set and cause product damage and/or personal injury.

8. Ventilation—The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. Heat—The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Cord Protection—Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

11. Object and Liquid Entry—Never push objects of any kind into this product through cabinet slots, as they may touch dangerous voltage points or short the parts, resulting in the risk of fire or electric shock. Never spill liquid of any kind on this product.

12. Damage Requiring Service—The appliance should be serviced by qualified service personnel when:

- A. THE POWER SUPPLY CORD OR PLUG IS DAMAGED OR FRAYED;
- B. LIQUID HAS SPILLED INTO THE PRODUCT;
- C. THE PRODUCT HAS BEEN EXPOSED TO RAIN OR WATER;

- D. THE PRODUCT DOES NOT OPERATE NORMALLY WHEN YOU FOLLOW THE OPERATING INSTRUCTIONS (ADJUST ONLY THOSE CONTROLS THAT ARE DISCUSSED IN THIS GUIDE, AS IMPROPER ADJUSTMENT OF OTHER CONTROLS MAY RESULT IN DAMAGE, OFTEN REQUIRING EXTENSIVE WORK BY A QUALIFIED TECHNICIAN TO RESTORE THE PRODUCT TO NORMAL PERFORMANCE);
- E. THE PRODUCT HAS BEEN DROPPED OR THE CABINET DAMAGED;
- F. THE PRODUCT EXHIBITS A DISTINCT CHANGE IN PERFORMANCE.

13. Servicing—The user should not attempt service to the appliance beyond that described in the Troubleshooting section of this guide. All other servicing should be referred to qualified service personnel.

14. Cleaning—Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners; use a damp cloth for cleaning. If the product comes in contact with any liquid, unplug the phone line and the power adapter and let the unit dry thoroughly before plugging it back in.

15. Power Source—This product should be operated only from the type of power source indicated on the marking label or in this guide. If you are not sure of the type of power supply to your home, consult your dealer or local power company.

16. Overloaded Power Outlets—do not overload wall outlets and extension cords, as this can result in the risk of fire or electric shock.

17. Electric Shock—To reduce the risk of electric shock, do not disassemble this product. Take it to a qualified service person when service or repair work is required. Opening or removing covers may expose you to dangerous voltage or other risks. Incorrect reassembly can cause electric shock when this product is subsequently used.

18. Telephone Usage—When using your telephone equipment, basic safety precautions should be always followed to reduce the risk of fire, electric shock and injury to persons. To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

19. Moving—Avoid moving the unit while it is plugged in to avoid accumulative shock and vibration damage to the internal hard disk drive.

20. CAUTION—Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

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Version 2, June 1991

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<one line to give the program's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## ►► Linux and Other Important Information

### GNU/LINUX SOURCE NOTICE

TiVo® Digital Video Recorders (DVRs) are powered by the Linux operating system. The machine-readable copy of the corresponding source code is available for the cost of distribution. Please visit [www.tivo.com/linux](http://www.tivo.com/linux) or write TiVo Inc., 2160 Gold Street, Alviso, CA 95002 for more information.

### MACROVISION COPYRIGHT PROTECTION

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

### HIGH DEFINITION TELEVISION COMPATIBILITY

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the "standard definition" output. If there are questions regarding our TV set compatibility with this model 525p DVD player, please contact our Customer Service center.

### INTERACTIVE PROGRAM GUIDE

The interactive program guide ("IPG") features of this device are covered by the following United States patents: 4,706,121.

### TELEPHONE LINE INTERRUPTION

Periodically, the TiVo Digital Video Recorder dials in to the TiVo service via your telephone line. If you pick up your telephone during the time information is being transferred, you will hear static noise. If you would like to use your telephone while the information is being transferred, you can hang up, wait about 45 seconds, and pick up your telephone again. The DVR will disconnect, and allow you to place your call. You can also interrupt the transfer at any time by temporarily unplugging the phone line from the DVR. If the transfer is interrupted, it will resume at a later time.

### MPEG LA

Any use of this product other than consumer personal use in any manner that complies with the MPEG-2 standard for encoding video information for packaged media is expressly prohibited without a license under applicable patents in the MPEG-2 patent portfolio, which license is available from MPEG LA, L.L.C., 250 Steele Street, Suite 300, Denver, Colorado 80206.

### DOLBY LABORATORIES

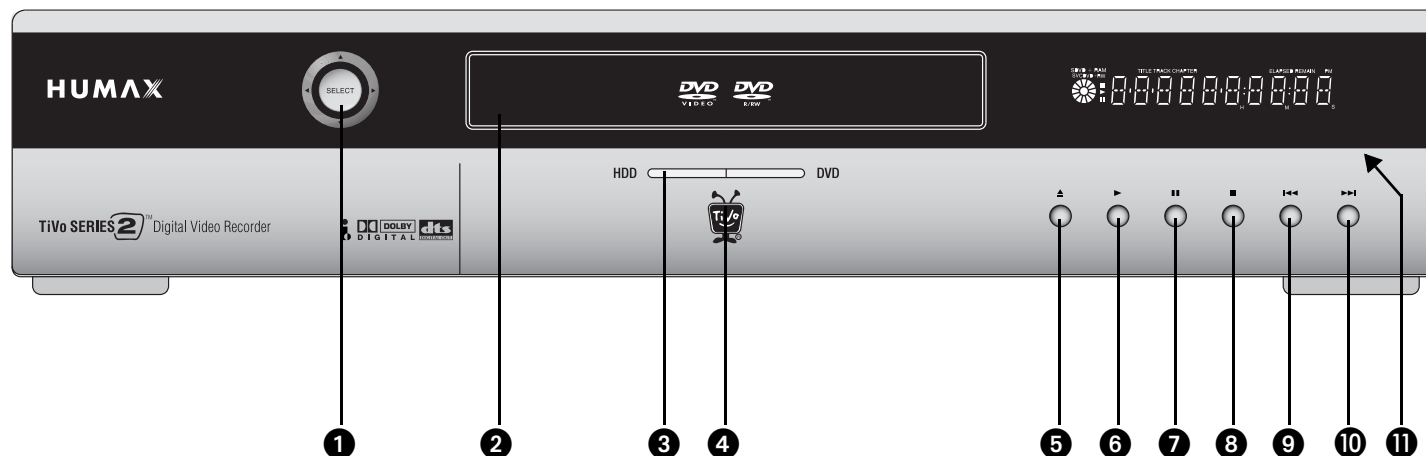
The TiVo® Digital Recorder contains one or more programs protected under international and U.S. copyright laws as unpublished works. They are confidential and proprietary to Dolby Laboratories. Their reproduction or disclosure, in whole or in part, or the production of derivative works therefrom without the express permission of Dolby Laboratories is prohibited. Copyright 1992-1997 by Dolby Laboratories, Inc. All rights reserved.

# Front and Back Panel Reference & Specifications

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## ►► Front Panel Reference



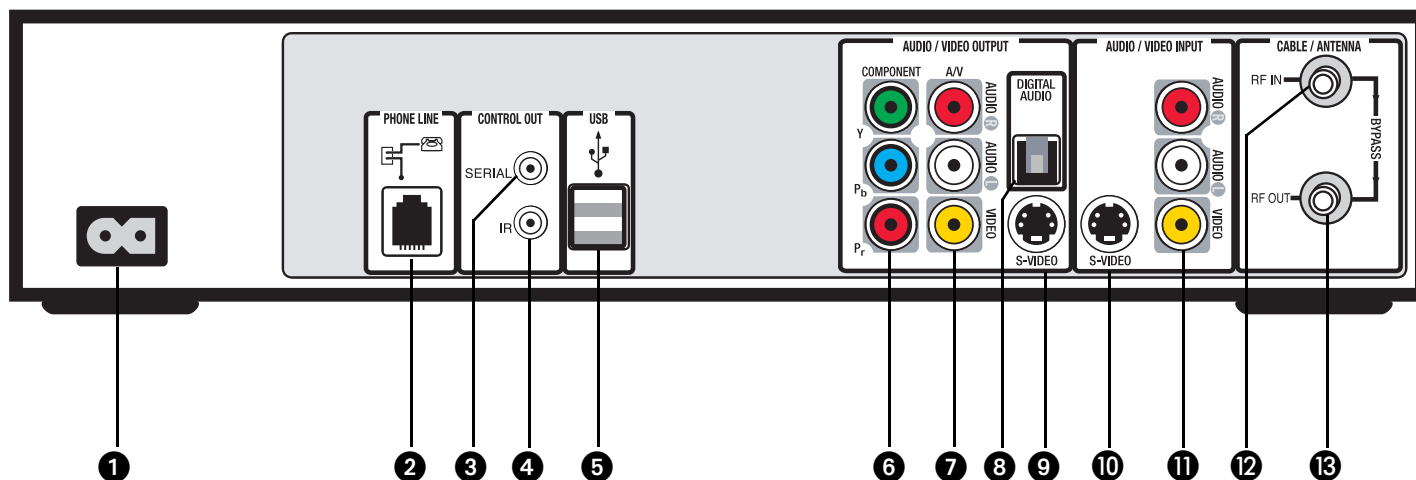
- 1 SELECT.** This button corresponds to the directional arrows and SELECT button on the Recorder's remote. Move the button up, down, left, and right to highlight items on a screen. Press the button to select an item.
- 2 Disc Tray.** Place DVDs and CDs in the disc tray with the label side facing up.
- 3 Indicator lights.** These lights indicate the Recorder's current status. A red light shows that a recording is in progress. An amber light can indicate that a connection to the TiVo service is in progress, or that the Recorder is responding to the remote control or a front panel button.
- 4 TiVo button.** Press once to go to TiVo Central®, twice to go to the Now Playing list.

- 5 OPEN/CLOSE ( ▲ ).** This button opens and closes the disc tray.
- 6 PLAY ( ► ).** Press PLAY to play a DVD or CD.
- 7 PAUSE ( ■■ ).** While playing a DVD or CD, press PAUSE to temporarily stop playback.
- 8 STOP ( ■ ).** While playing a DVD or CD, press STOP to halt playback.
- 9 SKIP BACK ( ◀◀ ).** While playing a DVD or CD, the SKIP BACK button skips to the previous chapter or track.
- 10 SKIP FORWARD ( ▶▶ ).** While playing a DVD or CD, the SKIP FORWARD button skips to the next chapter or track.
- 11 Status Display.** Information or messages about the the Recorder's activity are shown on the status display. While playing a DVD or CD, title, track, and chapter information is displayed, along with elapsed or remaining time. While watching live TV or recorded programs, the current time is displayed. You can change the brightness of the display, or turn it off. See "Front Panel Lights" on page 101.



**You don't need to set the  
Recorder's clock—the TiVo service  
does it for you!**

## ►► Back Panel Reference



- 1 AC ~ In.** (Connects to A/C power.) Use only the power cord supplied with your HUMAX DVD Recorder.
- 2 Phone Jack.** (Connects to phone cord.) The Recorder uses the phone line to get program information and other data from the TiVo service.
- 3 Control Out/Serial.** (Connects to cable or satellite box; not available on all cable or satellite boxes.) Allows the Recorder to change channels on a cable or satellite box.
- 4 Control Out/IR.** (Connects to cable or satellite box; IR stands for *infrared*.) This connection allows the Recorder to change channels on your cable or satellite box. The purple end of the IR Control cable plugs into the Recorder. The two emitters on the



other end of the cable are placed in front of the IR sensor on the cable and/or satellite box. See page 6 for details.

- 5 USB.** (Universal Serial Bus.) For connecting a USB network adapter. Connecting your Recorder to a home network gives you access to additional features and eliminates the need to connect the Recorder to a phone line. (A phone line is still required for Guided Setup.) See Chapter 7.
- 6 Component Video Output.** (Connects to TV.) This is the Recorder's highest quality video output. Use a Component Video cable (not supplied).
- 7 Composite A/V Output.** (Connects to TV or VCR.) The yellow jack sends video, and the red and white jacks send stereo audio. Use a Composite A/V cable (supplied).
- 8 Digital Audio Output.** (Connects to A/V receiver.) Use an Optical Digital Audio cable (not supplied) to connect the Recorder to a Dolby Digital compatible A/V receiver.
- 9 S-Video Output.** (Connects to TV or VCR.) If you use an S-Video cable (not supplied) for video, you will need to connect a separate cable for audio.
- 10 S-Video Input.** (Connects to cable or satellite box.) The Recorder can receive video from a cable or satellite box with an S-Video output. Use an S-Video cable (not supplied).
- 11 Composite A/V Input.** (Connects to cable or satellite box.) The Recorder can receive audio and video from a cable or satellite box with Composite A/V output jacks.
- 12 RF In.** (Connects to cable without a box , or antenna.) Use this jack to connect cable from the wall, or a rooftop or set-top antenna, to your Recorder .
- 13 RF Out (Bypass Only).** Signals entering the Recorder at the RF In jack are passed through the Recorder to this jack. No TiVo® service functionality is available on the signal from this jack.



**CAUTION: TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, AND FULLY INSERT.**

## ►► Specifications

Video In:	S-Video 4-pin mini DIN (2) Composite Video RCA (2)
Video Out:	S-Video 4-pin mini DIN Composite Video RCA Component Video RCA
Audio Line In:	Stereo L/R RCA (2 pairs)
Audio Line Out:	Stereo L/R RCA (1 pair) Digital Audio (Optical)
RF In:	F-Connector Female
RF Bypass Out:	F-Connector Female
Expansion Port:	USB (2)
Telephone:	RJ-11 female, 2-wire
Control Out:	3.5mm mini jack sockets (2)
Power:	120VAC, 60Hz, 59W
Ambient (external) Operating Temperature:	15C to 35C
Operating Humidity:	5% to 80%
Dimensions:	16.5" w X 13.25" d X 3.3" h
Remote Control:	37 Buttons
Storage:	ATA/IDE Hard Drive



**Actual recording capacity depends on signal quality and the type of programming being recorded.**

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# Glossary of Icons



These appear when you press THUMBS UP™ or THUMBS DOWN™. You can give a program up to three THUMBS UP or three THUMBS DOWN.



Preview™ icons appear when an option—such as automatically scheduling an upcoming program or watching an additional program segment—is available. Press SELECT or THUMBS UP to choose the option.

## TiVo Central, DVD, or Showcases



Indicates a selection that has some special video content.



Select to watch a special preview or visit a Showcase.



Indicates news or a special promotional offer from TiVo.



Indicates a playable DVD or photo CD is inserted.



Indicates a playable music CD is inserted.



(Orange with black border) Indicates a DVD is currently recording.

## To Do List and View Upcoming Episodes

*(These icons appear beside programs scheduled to be recorded.)*



Program is an individual recording (not part of a Season Pass™ or WishList™). In other places, it means an item has been selected.



Program will be recorded as part of a Season Pass.



Program will be recorded as part of a WishList.

## Channel Banner

*(These icons appear in the large channel banner.)*



(Red with black border) Select to start or stop a recording.



Select to display or turn on Parental Controls.



Select to read new messages.






## Save to VCR



Appears as a warning if a remote button is pressed during “Save to VCR.”



## Now Playing

-  (Green) This program will be saved until you delete it.
-  (Yellow) In less than one day, this program may be deleted to make room for other recordings you have requested, but only if space is needed.
-  (Yellow with exclamation mark) At any time, this program may be deleted to make room for other programs you have requested.
-  (Red with black border) This program is currently being recorded or transferred.
-  This program is a TiVo® Suggestion. TiVo Suggestions are recorded only if space is available, and are the first to be deleted



“Plain” folder – contains more than one episode of the same series.



Folder with red dot – for any group that includes a program that is currently recording or transferring.



Folder with blue star – contains one or more programs recorded by a WishList™ search.








Folder with Thumbs Up™ – contains all programs recorded as TiVo Suggestions.



DVR – for a DVR on your network.

## DVD Banner

-  Select to search for a title, chapter, or time on a DVD.
-  Select to change the repeat setting on a DVD.
-  Select to change the camera angle for DVD scenes with multiple camera angles.
-  Select to change the audio track or subtitle language on a DVD.
-  Select to change the Progressive Output setting if available.

**TiVo and HUMAX are dedicated to providing you with quality support and customer service. If you have questions or difficulties, we would like to hear from you.**

### **Troubleshooting**

Check the Troubleshooting chapter of this guide. It has detailed answers to the most common questions, and solutions for typical troubleshooting issues.

### **Contact Customer Support**

You can find complete Customer Support contact information in the Troubleshooting chapter of this guide.

### **Online Customer Support**

Check the HUMAX support site or the TiVo support site:

#### **HUMAX Customer Support**

- Connecting the Recorder to your TV & other equipment
- Recording DVDs or playing DVDs and CDs
- Channel changing and the remote control
- Audio and video

[www.humaxusa.com/support](http://www.humaxusa.com/support)

#### **TiVo Customer Support**

- Using TiVo service features (finding & recording programs)
- Your channel lineup and channel lists
- Your TiVo service account and billing issues
- Online scheduling and Home Media Features

[www.tivo.com/support](http://www.tivo.com/support)